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Pages 10-21 Withheld Pursuant to
Exemption 5, Attorney Client Privilege
Attorney Work Product
Exemption 7, Enforcement Confidentiality

Pages 26-29 Exemption 5, 7

Page 32 Exemption 5, 7

Pages 35-39 Exemption 5, 7

Page 45 Exemption 5, 7

Pages 49-59 Exemption 5, 7

Pages 65-81 Exemption 5, 7

Pages 83-110 Exemption 5, 7

Page 114 Exemption 5, 7

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 Principal: Jerry Taylor <jtaylor@CATO.ORG>
 Subject: Re: Are FME-ers Environmentalists?
 From: FME Roundtable <FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET>
 SendTo: FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET
 ReplyTo: FME Roundtable <FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET>
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 COMMENTS: To: Brian Mannix <Brian@Mannix.com>
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 DeliveredDate: 01/01/2003 05:04:09 PM

A brilliant stroke on your part, Brian! I have no idea what a judge might say, however. Are ALL environmentalists by definition leftists? Must an "environmentalists" be affiliated with an explicitly enviro-focused organization?

-----Original Message-----

From: Brian Mannix [mailto:Brian@Mannix.com]
 Sent: Wed 1/1/2003 1:25 PM
 To: FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET
 CC:

Subject: Are FME-ers Environmentalists? Multiple.txt

Dear FME colleagues:

The question of whether Free Market Environmentalists should call themselves Environmentalists is an interesting philosophical or political or semantic question that we have touched on before. However, I suddenly find myself confronted with it as a legal question! Some environmental groups successfully sued the Clinton administration, and reached a separate settlement with the Bush administration, to get an "environmental representative" appointed to certain industry-sector advisory committees on trade policy. Do I qualify?

For the record, my application stated that I intend to represent the public interest, with a special expertise in environmental matters. I have trouble disaggregating the public's "environmental interest" from all of its other interests.

When I applied for this appointment, I fully expected that my qualifications, both technical and political, would receive thorough scrutiny. What is surprising to me is that my political qualifications should be vetted by a federal judge.

Neither I nor Mercatus expect to be parties to the litigation; we are who we are, and will live with whatever decision the administration and/or the courts reach about my participation on the committee. But we will certainly be watching the briefs with interest.

I welcome your thoughts.

--Brian Mannix

Excerpt from a Greenwire story:

Environmentalists are taking the Bush administration back to court over its decision to label a researcher from a conservative think tank an "environmentalist" and appoint him as such to a panel that advises the administration on chemical industry trade issues.

The administration appointed Brian Mannix, a regulatory studies research fellow at the Mercatus Center at George Mason University, to serve on the Chemical Industry Sector Advisory Committee (ISAC-3) on Dec. 12.

Attorneys at Earthjustice, representing Public Citizen, the Washington Toxics Coalition and Asian Pacific Environmental Exchange, argue the appointment violates a court-ordered settlement requiring the administration to appoint an environmentalist to the panel.

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2003010205251908:497380 ; Thu, 2 Jan 2003 05:25:19 -0500 with ESMTTP id
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Page 2

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Thu, 02 Jan 2003 05:21:34 -0500 (EST)
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 PostedDate: 01/02/2003 05:19:08 AM
 Principal: julian morris <julian@POLICYNETWORK.NET>
 Subject: Re: Are FME-ers Environmentalists?
 In-Reply-To: <50E8322A90F08443AA6E9267B1FEC8E0095E87@exchange.cato.org>
 From: FME Roundtable <FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET>
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I agree with Jerry, an inspired move on your part Brian.

As regards the legality, I guess the question would be whether the representative would have to be only representing environmental interests. And then what that would mean. Would it mean for example that you work for a 501c(3) that fundraises by scaring the public into believing that the environment is being destroyed by capitalism, or whether you also fundraise on the basis that capitalism kills workers and car drivers too. (It is a little ironic that Public Citizen should be promoting this suit, since that organization itself purports to represent more than just the environment.) But as you say yourself, it is surely difficult to differentiate pure environmental interests from other interests. Eco-extremists often claim that the environment is categorically 'different' from other interests and in some sense deserving of more

respect. (At the extreme of maintaining the biosphere I guess they have a point, but no more of a point than those who oppose the use of nuclear weapon!

ns, which might likewise destroy humanity -- little wonder that the two groups are closely intertwined.) Human rights activists and others with a more human-centric view tend to disagree with this claim. As to whether FME-ers are environmentalists -- my feeling is that a commonality amongst us is a desire to protect both the environment and liberty, but that the former should not take precedence over the latter. Another commonality is that we see the environment largely as a subjective phenomenon -- we accept that there are trade-offs between investing in air quality and investing in other improvements in our lives. Many of us also believe that expenditures on environmental improvement should be done in an efficient manner: with limited resources, it is in both the wider public interest and the narrower environmental interest to get the biggest bang for one's buck.

As regards what a judge will say, I have no idea, but it might be worth submitting an amicus curiae brief with some material from yourself (and others at Mercatus) displaying your expertise in environmental analysis.

Julian

> -----Original Message-----

> From: FME Roundtable [mailto:FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET] On
> Behalf Of Jerry Taylor
> Sent: 01 January 2003 22:02
> To: FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET
> Subject: Re: Are FME-ers Environmentalists?

> A brilliant stroke on your part, Brian! I have no idea what a
> judge might say, however. Are ALL environmentalists by
> definition leftists? Must an "environmentalists" be affiliated
> with an explicitly enviro-focused organization?

> -----Original Message-----

> From: Brian Mannix [mailto:Brian@Mannix.com]
> Sent: Wed 1/1/2003 1:25 PM
> To: FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET
> Cc:
> Subject: Are FME-ers Environmentalists?

> Dear FME colleagues:

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> should call themselves Environmentalists is an interesting
> philosophical or political or semantic question that we have
> touched on before. However, I suddenly find myself confronted
> with it as a legal question! Some environmental groups
> successfully sued the Clinton administration, and reached a
> separate settlement with the Bush administration, to get an
> "environmental representative" appointed to certain
> industry-sector advisory committees on trade policy. Do I qualify?

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> represent the public interest, with a special expertise in
> environmental matters. I have trouble disaggregating the
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> When I applied for this appointment, I fully expected

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> that my qualifications, both technical and political, would
> receive thorough scrutiny. What is surprising to me is that my
> political qualifications should be vetted by a federal judge.

> Neither I nor Mercatus expect to be parties to the
> litigation; we are who we are, and will live with whatever
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> participation on the committee. But we will certainly be
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> I welcome your thoughts.

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> and appoint him as such to a panel that advises the
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> the Washington Toxics Coalition and Asian Pacific
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□

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PostedDate: 01/02/2003 11:57:31 AM
Principal: Fred Smith <fsmith@CEI.ORG>
Subject: Re: Are FME-ers Environmentalists?
From: FME Roundtable <FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET>
SendTo: FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET
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And -- if there were not enough battles to fight this early in the year -- we find that Senators Lieberman and McCain have set NEXT Wednesday for the hearing on Early Action Credits (aka a "voluntary" move to create a Carbon Constrained Future for America). The "neutral" hearings will begin with Jim Mahoney -- undoubtedly seeking to focus on the science -- but all too likely to veer into the "what's wrong with voluntary approaches" trap.

But, then the other shoes drop:

Eileen Claussen,
someone from Environmental Defense,
Richard Sandor (of Chicago Merc fame and the "expert" on the value of making everything tradable, and
someone from Alcoa (I would guess not O'Neill).

Totally wired -- all champions of energy rationing (aka emission trading) and thus creating another media event favoring higher energy costs.

The failure of the Administration to cauterize the Kyoto-wound becomes ever more apparent. By failing to "unsign" Kyoto, by failing to close down CEQ, CEA and the other champions for carbon constraints, they've allowed the rent-seekers in the business community to lobby aggressively for carbon constraints, for less affordable energy. The PC crowd in Congress and the "if we're just really, really nice to the environmental establishment, they'll all vote Republican" idiots should be taken to the woodshed.

One can have affordable energy (as the Administration seems to favor) or one can have energy rationing (the carbon constrained trading system that too many in this Administration favor) but one can't have both. The Administration should decide -- then we can either move on to other issues or fight to the death on this one.

It would be nice if someone within the Administration actually had some framework for addressing environmental issues, for determining environmental priorities. They don't and the result is the muddle that we find ourselves confronted with each day.

Sigh.

Multiple.txt

Fred

We have work to do.

-----Original Message-----

From: Chris Horner
Sent: Thursday, January 02, 2003 10:57 AM
To: FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET
Subject: Re: Are FME-ers Environmentalists?

I second the encouragement that the Administration not be left to the task of making arguments that we are not certain they will make, re: wealthier is healthier, cleaner, etc. My sense is they would focus on the "inclusiveness", vs. any ideological arguments. CEI may be able to play some role.

-----Original Message-----

From: Rob Bradley [mailto:iertx@SWBELL.NET]
Sent: Thu 1/2/2003 10:27 AM
To: FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET
Cc:
Subject: Re: Are FME-ers Environmentalists?

I would hope that others who have environmental credentials (such as our friends at PERC) throw their names in the hat in these situations.

A major strategy is to break the enviro cartel. So long as they speak with one voice, they can be as wrong as can be but powerful with the press and others.

- Rob Bradley

----- Original Message -----

From: "julian morris" <julian@POLICYNETWORK.NET>
To: <FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET>
Sent: Thursday, January 02, 2003 4:19 AM
Subject: Re: Are FME-ers Environmentalists?

> I agree with Jerry, an inspired move on your part Brian.

>

> As regards the legality, I guess the question would be whether the representative would have to be only representing environmental interests. And then what that would mean. Would it mean for example that you work for a

501c(3) that fundraises by scaring the public into believing that the environment is being destroyed by capitalism, or whether you also fundraise on the basis that capitalism kills workers and car drivers too. (It is a little ironic that Public Citizen should be promoting this suit, since that organization itself purports to represent more than just the environment.) But as you say yourself, it is surely difficult to differentiate pure environmental interests from other interests. Eco-extremists often claim that the environment is categorically 'different' from other interests and in some sense deserving of more respect. (At the extreme of maintaining the biosphere I guess they have a point, but no more of a point than those who oppose the use of nuclear weapons!)

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> > From: FME Roundtable [mailto:FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET] On Behalf Of Jerry Taylor

> > Sent: 01 January 2003 22:02

> > To: FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET

> > Subject: Re: Are FME-ers Environmentalists?

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> > -----Original Message-----

> > From: Brian Mannix [mailto:Brian@Mannix.com]

> > Sent: Wed 1/1/2003 1:25 PM

> > To: FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET

> > Cc:

> > Subject: Are FME-ers Environmentalists?

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> > decision the administration and/or the courts reach about my
> > participation on the committee. But we will certainly be
> > watching the briefs with interest.

> > I welcome your thoughts.

> > --Brian Mannix

> > Excerpt from a Greenwire story:

> > Environmentalists are taking the Bush administration
> > back to court over its decision to label a researcher
> > from a conservative think tank an "environmentalist"
> > and appoint him as such to a panel that advises the
> > administration on chemical industry trade issues.

> > The administration appointed Brian Mannix,
> > a regulatory studies research fellow at the Mercatus Center
> > at George Mason University, to serve on the Chemical Industry
> > Sector Advisory Committee (ISAC-3) on Dec. 12.

> > Attorneys at Earthjustice, representing Public Citizen,
> > the Washington Toxics Coalition and Asian Pacific
> > Environmental Exchange, argue the appointment
> > violates a court-ordered settlement requiring the
> > administration

> > to appoint an environmentalist to the panel.

>

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arbara McGarry/OU=R2/O=USEPA/C=US@EPA,CN=Barbara
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Makepeace/OU=DC/O=USEPA/C=US@EPA,CN=Carolyn
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McCulloch/OU=DC/O=USEPA/C=US@EPA,CN=Ciannat
Howett/OU=DC/O=USEPA/C=US@EPA,musgrove.connie@epa.gov@EPA,CN=Craig

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----- Forwarded by James Jackson, ES, -----

kozfl@webtv.net (Ted Kozlowski)
01/02/03 12:50 PM

To: cmcleod670@xtalwind.net, readwithbarb@aol.com,
djackson6@woh.rr.com,
James Jackson/DC/USEPA/US@EPA, KathMcDee@aol.com,
Page 22

Multiple.txt
gvansick@tampabay.rr.com, Sakoz@aol.com
cc:
Subject: Manure

In the 16th and 17th centuries, before commercial fertilizer was invented, large shipments of manure were transported by ship. It was shipped in dry bundles because in dry form it weighed a lot less than when wet. But once water hit it at sea, it not only became heavier, but the process of fermentation began, a by-product of which is methane gas. It didn't take long for methane to build up below decks and the first time someone came below at night with a lantern, BOOOOM!
Several ships were destroyed in this manner before somebody figured out what was happening. Once they determined the role that manure played in the explosions, everybody began stamping the bundles with the term "Ship High In Transit," so that the sailors would know to stow it high enough off the lower decks so that any water that came into the hold would not touch this volatile cargo and start the production of methane.
Thus evolved the term "S.H.I.T.," which has come down through the centuries and is in use to this very day. You probably did not know the true history of this word.
Neither did I. I always thought it was a golf term.

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Principal: Kenneth Green <keng@FRASERINSTITUTE.CA>
Subject: Re: Are FME-ers Environmentalists?
In_Reply_To: <016d01c2b1c3\$23499880\$7d00a8c0@del1400>
From: FME Roundtable <FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET>
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Brian -

First, my compliments on your determination to be part of the policymaking process by giving up time and incurring the considerable frustration you're bound to amass as you deal with the sausage-making process of such advisory committees. I've always done that myself, but I think too few in the FME movement are willing to do so, preferring to keep an arms-length relationship with the policymaking process.

As to whether or not Free Market Environmentalists should call themselves (or be recognized as) environmentalists, well, I think it depends on whether or not a significant fraction of their policy recommendations can be shown as likely to lead to genuine improvements in environmental quality and protection. I think many of the FMERs on this list can make a good case in that regard, by pointing out that:

- 1) It is fairly well documented that stronger, freer, market economies secure the wealth that lets the population pay for environmental protection, whether they do it through individual action, or regulatory actions;
- 2) In many cases, evidence suggests that the causes of environmental degradation are the degradation of property rights and the subversion of markets, and thus, FME solutions are likely to remediate such degradation;
- 3) For issues that aren't amenable to property rights-based solutions (such as air pollution), my observation is that many, if not most FMERs accept that regulatory approaches are acceptable, so long as they emulate the outputs of a tort law process, and are implemented by means that are maximally market-friendly, or at least, market-neutral. So, they want the burden of proof on the accuser, and they want remedies to be proportional, direct, nonsubsidized, nonpunitive, etc.

About the only way to show that one holds these views is to pony up the publications list, and let others decide for themselves. It's one reason why I try not to write things that are purely critical of an environmental regulation (or call for regulation) without offering up alternatives that still address the perceived problem, rather than dismissing it out of hand.

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(Of course, I suspect that some here would find that squishy, and accuse me of legitimizing fictitious concerns that only warrant sharp dismissal as "junk science")

All that being said, there is always a problem with labeling oneself, or accepting a label as a hyphenated environmentalist. Point 3 above, for example, just isn't communicated well by saying one is a "Free Market Environmentalist." And with many "market-based" solutions embraced (if only in words) by environmental pressure groups, environmental challenges that aren't easily amenable to property-rights based solutions are increasingly where the rubber meets the road. I think this is part of the reason that some people who originally called themselves Free Market Environmentalists took to calling themselves "New Environmentalists" instead. I resisted that

label for awhile, finding it unsatisfyingly nebulous, but my view of that is

in flux. Perhaps a different name is needed for the FME movement, but then,

I suspect that there's enough difference of opinion involving point 3 that would make consensus impossible, even on this list.

I'm fortunate in that having a doctorate in environmental science sorta insulates me from the charge that I'm either unqualified, or insufficiently motivated by a love of the environment to serve on such committees. (Though

now that I'm living in Canada, I rather doubt that they'd want me, or pay for my travel!).

Best of luck, and keep us informed of your progress!

Ken Green

>-----<
Dr. Kenneth Green
Chief Scientist and Director, Centre for
Studies in Risk, Regulation, and Environment
Fraser Institute (www.fraserinstitute.ca)
604-688-0221 | keng@fraserinstitute.ca

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Ladies and Gentlemen:

Greg Lackner here at Heartland informs me:

I just spoke to Floyd Deschamps, staffer with the U.S. Senate Commerce Committee regarding submitting testimony for their upcoming hearings on emissions trading.

They are accepting testimony, preferably via electronic submission using word attachment. It can be sent as much as two weeks after the initial hearings to floyd_deschamps@commerce.senate.gov

We're working with Jim Johnston (Heartland's/Amoco's Jim Johnston, not GM's/AEI's Jim Johnston) to submit his notes from the Chicago DOE meeting.

Joe

--

Joseph L. Bast
President

The Heartland Institutewww.heartland.orgphone 312/377-4000
fax 312/377-5000jbast@heartland.org

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ReplyTo: jbast@heartland.org
\$MessageID: <3E160CD8.90901@heartland.org>
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A draft Heartland policy study on state efforts to reduce CO2 emissions is now undergoing peer review. It can be downloaded by going to:

<http://www.heartland.org/article.cfm?artid=11133>

The current draft is missing footnotes, will have a new introduction summarizing the major points, and other changes are being made. Please don't cite or circulate. Your comments on this draft, however, would be highly valued and should be sent to Diane Bast's attention at dbast@heartland.org.

The study relies heavily on a "Global Insight" study of the state-by-state cost of Kyoto. I didn't check the reference when I did my quick edit (one of those missing footnotes), but I suspected it might be Mary Novak's 1997 study for WEFA . . . and I just learned that it is. WEFA merged with Data Resources Inc. in 2000 and became Global Insight, which is where Mary now hangs her hat. The complete 1997 study is still available on the American Petroleum Institute's web site at:

<http://www.api.org/globalclimate/wefa/ntl98.pdf>

My question to you all is: Are you aware of any more recent study than this on the cost of reducing greenhouse gases? In particular, a study with a state-by-state breakout?

Joe

--

Joseph L. Bast

President

The Heartland Institute

www.heartland.org

phone 312/377-4000

fax 312/377-5000

jbast@heartland.org

□

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You can use this cite:

HOWARD KLEE, JR. & MAHESH PODAR, AMOCO/U.S. EPA POLLUTION PREVENTION PROJECT: EXECUTIVE SUMMARY (Rev. ed., May 1992).

However, I'm not sure the Yorktown report relates as directly to the NSR debate as does, say, the debate in the prior administration over the WEPCo rule, or the various studies indicating that the existing CAA NSR rules discourage innovation. Some of this literature is summarized in the CEI "no regrets" paper. Interestingly enough, this view is also endorsed in the Pew Center of Climate Change's climate options report.

JHA

----- Original Message -----

From: Hayward487@AOL.COM
To: FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET
Sent: Sunday, January 05, 2003 12:25 PM
Subject: Yorktown Refinery experiment

Does anyone out there have any references to the Yorktown refinery experiment from about 10 or 12 years back? I am thinking the Yorktown experience might have some bearing on the argument about the current NSR changes. . .

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COMMENTS: To: "Jonathan H. Adler" <jhadler@EARTHLINK.NET>
Page 40

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Steve:

Your last AEI piece suggested that Bush I had "improved his standing with the enviros" by pushing the Clean Air Act Amendments -- given the costs and low benefits of that initiative are you sure? Certainly, the enviro leadership never had much good to say about Bush - Bob Grady was the honcho on this (now chair of RFF).

Fred

-----Original Message-----

From: Jonathan H. Adler [mailto:jhadler@EARTHLINK.NET]
Sent: Sunday, January 05, 2003 12:40 PM
To: FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET
Subject: Re: Yorktown Refinery experiment

Steve --

For this proposition:

"A review of EPA regulations imposed on refineries found that 97 percent of the emission reductions achieved by existing regulatory requirements could be achieved for 25 percent of the cost."

You can use this cite:

HOWARD KLEE, JR. & MAHESH PODAR, AMOCO/U.S. EPA POLLUTION PREVENTION PROJECT: EXECUTIVE SUMMARY (Rev. ed., May 1992).

However, I'm not sure the Yorktown report relates as directly to the NSR debate as does, say, the debate in the prior administration over the WEPCo rule, or the various studies indicating that the existing CAA NSR rules discourage innovation. Some of this literature is summarized in the CEI "no regrets" paper. Interestingly enough, this view is also endorsed in the Pew Center of Climate Change's climate options report.

JHA

----- Original Message -----

From: Hayward487@AOL.COM
To: FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET
Sent: Sunday, January 05, 2003 12:25 PM
Subject: Yorktown Refinery experiment

Does anyone out there have any references to the Yorktown refinery experiment from about 10 or 12 years back? I am thinking the Yorktown experience might have some bearing on the argument about the current NSR

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changes. . .

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Received: from JamesLJohnston@cs.com by imo-r06.mx.aol.com (mail_out_v34.13.) id r.12d.1f32daee (17079); Sun, 05 Jan 2003 13:09:48 -0500 (EST)
PostedDate: 01/05/2003 01:09:48 PM
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From: FME Roundtable <FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET>
SendTo: FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET
ReplyTo: FME Roundtable <FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET>
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COMMENTS: To: Hayward487@aol.com
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Yes, I remember the case. The EPA was going to apply arbitrary rules on reducing emissions on Amoco's Yorktown refinery. The refinery people along with the environmental group in Chicago worked out an alternative plan that was simultaneously less costly and achieved a greater reduction.

I met the guy who headed up the project, but I cannot remember his name. (These senior moments come more often these days.) I will look at my collection of Amoco annual reports and check the BP web site. However, I doubt that there is much there. I think that there was a presentation on the

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project at the Mont Pelerin meeting that John Baden hosted at Big Sky. John may have some names for you. The guys were making a lot of presentations about the project to various audiences.

As a last resort, I would check with the people at Yorktown. I vaguely remember that the EPA subsequently pulled the plug. There may still be some pissed off people who recall the incident.

I wish I could have been more help, after all I was at Amoco at the time.

Best regards,

Jim Johnston
847-256-1294

In a message dated 1/5/03 9:26:27 AM, Hayward487@AOL.COM writes:

<< Does anyone out there have any references to the Yorktown refinery experiment from about 10 or 12 years back? I am thinking the Yorktown experience might have some bearing on the argument about the current NSR changes. . . >>

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PostedDate: 01/05/2003 01:46:58 PM
Principal: Joseph Bast <jbast@HEARTLAND.ORG>
Subject: Re: Yorktown Refinery experiment
From: FME Roundtable <FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET>
SendTo: FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET
ReplyTo: FME Roundtable <FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET>
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A four-page executive summary of the Yorktown experiment is available at:
<http://www.heartland.org/pdf/23033a.pdf>

Joe

Fred Smith wrote: Steve:Your last AEI piece suggested that Bush I had "improved his standing with the enviros" by pushing the Clean Air Act Amendments -- given the costs and low benefits of that initiative are you sure? Certainly, the enviro leadership never had much good to say about Bush - Bob Grady was the honcho on this (now chair of RFF). Fred
-----Original Message-----

From: Jonathan H. Adler [mailto:jhadler@EARTHLINK.NET]
Sent: Sunday, January 05, 2003 12:40 PM
To: FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET
Subject: Re: Yorktown Refinery experiment

Steve -- For this proposition:"A review of EPA regulations imposed on refineries found that 97 percent of the emission reductions achieved by existing regulatory requirements could be achieved for 25 percent of the cost." You can use this cite:HOWARD KLEE, JR. & MAHESH PODAR, AMOCO/U.S. EPA POLLUTION PREVENTION PROJECT: EXECUTIVE SUMMARY (Rev. ed., May 1992). However, I'm not sure the Yorktown report relates as directly to the NSR debate as does, say, the debate in the prior administration over the WEPCo rule, or the various studies indicating that the existing CAA NSR rules discourage innovation. Some of this literature is summarized in the CEI "no regrets" paper. Interestingly enough, this view is also endorsed in the Pew Center of Climate Change's climate options report. JHA

----- Original Message -----
From: Hayward487@AOL.COM
To: FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET
Sent: Sunday, January 05, 2003 12:25 PM
Subject: Yorktown Refinery experiment

Does anyone out there have any references to the Yorktown refinery experiment from about 10 or 12 years back? I am thinking the Yorktown experience might have some bearing on the argument about the current NSR changes. . .

--
Joseph L. Bast
President
The Heartland Institute
19 South LaSalle #903
Chicago, IL 60603

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David

I'm not sure if my records are right for you, but I am not sure if you
paid me for the OWC CELEBRATION. AS a reminder, could you send me \$30.00
for you and Marlae.

Sure appreciation your participation.

Jerry

□

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Page 46

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From: FME Roundtable <FME-ROUNDTABLE@LISTSERV.BRIDGEBAND.NET>
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Fred:

That is NOT what I said. I speculated (in a footnote) one possible
explanation for closer polls on the environment in 1990 was the Clean Air
Act. That is not the same thing as saying Bush improved his standing
with enviros. The public is a different matter. Not sure where you get
the quotation that appears in your e-mail; I can't find it in my piece.

In a message dated 1/5/03 9:56:03 AM, fsmith@CEI.ORG writes:

Steve: Your last AEI piece suggested that Bush I had "improved his
standing with the enviros" by pushing the Clean Air Act Amendments --
given the costs and low benefits of that initiative are you sure?
Certainly, the enviro leadership never had much good to say about Bush -
Bob Grady was the honcho on this (now chair of RFF). Fred

□

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You have been sent this message from marlae.schnare@fairfaxcounty.gov as a courtesy of the Washington Post - <http://www.washingtonpost.com>

READ THIS! OUCH!

To view the entire article, go to
<http://www.washingtonpost.com/wp-dyn/articles/A14766-2003Jan5.html>

□

Exemption 5, Attorney Client Privilege
Exemption 7, Enforcement Confidential

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  <email>Schnare.David@epamail.epa.gov</email>
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massive world conspiracies...

is too much for me...

99.9% of the world's scientists believe we have global warming and climate change.

there are no-doubt some evil-doers ... but to focus on them... alone is just nuts.

5/26/11 7:57 AM

PUBLISH YOUR COMMENT

PREVIEW

☐ Anonymous said...

Climate change, f/k/a global warming, is a source of revenue and power for its proponents. That doesn't mean all of their research and advocacy is wrong, but I no more trust academics seeking funding than I do Wall Street.

We need one set of rules. If UVA is willing to release email messages from global warming skeptics, it should do so for global warming believers.

TMT

5/26/11 8:49 AM

☐ Waldo Jaquith said...

Most of what ATI has received so far is junk: "ads for Halloween costumes, public news releases from lay and scientific journals, and a few emails that were printed in computer code so as to be unintelligible in that form."

"Printed in computer code so as to be unintelligible"? I don't know anything about this ATI group, but that's just pathetic. They're complaining about base 64 encoding, which is used for any e-mail that contains any sort of styling—italics, bold, images, colors, etc. At least half of the e-mails that I receive are base 64 encoded. That's not "printed in computer code"—that's precisely how the e-mail was transmitted. If this group wants base 64 material to be decoded for them, not only is that pathetic handholding, but it's also asking that UVA violate FOIA by stripping out essential data from e-mail.

He has worked as a USAF Weather Officer (Active Duty and Reserve) and retired with the rank of Lieutenant Colonel. Clough retired as Chief of the US Army Aberdeen Test Center's Atmospheric Effects Team, specializing in atmospheric measurements and modeling.

He currently is President of Biblical Framework Ministries and an Adjunct Professor of Chafer Theological Seminary (his teachings include ethics of man's relation to the environment).

One Response to "Fellows & Advisors"

- [*Colorado's wind energy: neither free nor clean* | *Energy Policy Center*](#):
August 5, 2011 at 3:30 pm

[...] American Tradition Institute, where our own Amy Oliver Cooke is a media and investigative fellow, is suing the state of Colorado for its renewable energy mandate. (Check out Executive Director [...])

Make a Contribution



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American Tradition Institute is qualified as a 501c3 organization under IRS rules, and is therefore prohibited from grassroots lobbying. To exercise your right to take action at the state and federal levels on important legislation, please visit [American Tradition Partnership](#) here.

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American Tradition
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Like

998 people like American Tradition Institute.



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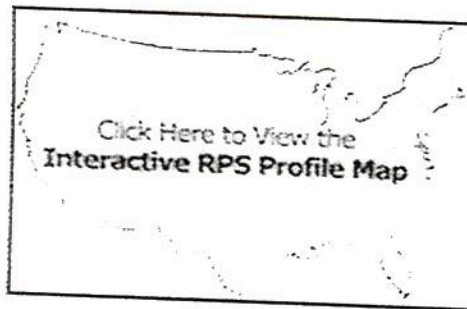
View All

ATI In The News

Interest group receives U.Va. climate records

By Julian Walker, *The Virginian-Pilot*, 8/25/2011—As part of a legal agreement, the University of Virginia has provided thousands of pages of climate change documents to a conservative interest group that requested them under open records laws....[Read more](#)

RPS Profile Map



About American Tradition Institute

History and Founding Principles American Tradition Institute (ATI) is a public policy research and educational foundation - a "think tank" - founded in 2009 to help lead the national discussion about environmental issues, including air and water quality and regulation, responsible land use, natural resource management, energy development, property rights, and free-market principles of stewardship. American Tradition Institute utilizes a three-pronged strategy to advance responsible, economically sustainable environmental policy: Research, investigative journalism, and litigation, via our Environmental Law Center. Our combination of expert policy analysis, exposing truth, and redressing wrongs in court advances the cause of liberty, and will...

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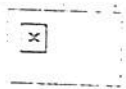
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Imagine how ATi would complain if UVA converted that base-64 data to ASCII!â€œthey've removed key layout data that strips out important, original data from these e-mails!" It's time for ATi to put on their big-girl panties.

5/26/11 9:00 AM

 Larry G said...

well I'm not in favor of UVA stonewalling on FOIA... in the long run it will just encourage other agencies to emulate such tactics.



Govt hates FOIA and if I had to choose between a witch hunt, no matter how dumb an killing FOIA, I'll take the witch hunt.

I have ZERO SYMPATHY for what UVA is doing to the FOIA.

but I also think that those who subscribe to global govt an academic conspiracies are a little warped also.

History is rich with crooked scientists.

it's not new.

there are even small cabals of scientists who support each other's beliefs and they are not above cooking the books.

this is why we have peer review and double/triple blind studies.


In order for me to accept what the Global Warming skeptics to believe about UVA, et al.. it means that I'd have to believe that all the govt agencies and most all of the world's universities and govts are part of the conspiracy.

that's just not rational.

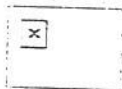
that starts getting into the territory of the auto companies producing gas guzzlers to insure profit for the oil companies...

at some point.. we look like idiots.


5/26/11 9:38 AM

 Hydra said...

Thousands of "atta boy's" are about to be erased by one "aw shit"



5/26/11 9:52 AM

 DW Schnare said...

Waldo Jaquith suggests he knows what UVA has given up and what it has not. He does not.

The material they have given us includes pages of code in hexadecimal code.


What Waldo does not understand is that UVA is required to provide us the records in electronic form. Had they done so, the 100 page email from the Holloween Party store would have be fun to look at, and would have been two pages long, instead of nearly 20 pages of HTML code.

Everybody needs to calm down. UVA and ATI are working together quite civilly and together we have mapped out a sensible approach to meet both parties needs.

David Schnare
The Environmental Law Center
American Tradition Institute

5/26/11 10:17 AM



 DW Schnare said...

Correction

The 20 page email from the Holloween store, not 100 pages. That was from Nature.

5/26/11 10:19 AM



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Curriculum Vitae

Michael E. Mann

Pennsylvania State University, Department of Meteorology, University Park, PA 16802
 Tel: (814) 863-4075; FAX (814) 865-3663; email: mann@psu.edu
 website: <http://www.meteo.psu.edu/~mann>

Education

- 1998 Ph.D. Yale University, Department of Geology & Geophysics (defended 1996)
- 1993 M.Phil. Yale University, Department of Geology & Geophysics
- 1991 M.Phil. Yale University, Department of Physics
- 1991 M.S. Yale University, Department of Physics
- 1989 A.B. (double), University of California-Berkeley, Applied Math, Physics (Honors)

Honors and Awards

- 2008 Profiled in *American Environmental Leaders From Colonial Times to the Present*
- 2008 Website "RealClimate.org" (co-founded by M. Mann) chosen as one of top 15 "green" websites by *Time Magazine* (April 2008)
- 2007 Co-awarded (along with several hundred other scientists) the 2007 Nobel Peace Prize for involvement in the *Intergovernmental Panel on Climate Change* (lead author of chapter 2 of the Third Assessment Report, 2001)
- 2006 American Geophysical Union Editors' Citation for Excellence in Refereeing (for "Geophysical Research Letters")
- 2005 Website "RealClimate.org" (co-founded by M. Mann) chosen as one of top 25 "Science and Technology" websites by *Scientific American*
- 2005 John Russell Mather Paper award for 2005 by the Association of American Geographers [for article: Frauenfeld, O., Davis, R.E., and Mann, M.E., A Distinctly Interdecadal Signal of Pacific Ocean-Atmosphere Interaction, *Journal of Climate* 18, 1709-1718, 2005]
- 2002 Named by *Scientific American* as one of 50 leading visionaries in science and technology
- 2002 Outstanding Scientific Paper award for 2002 by NOAA Office of Oceanic and Atmospheric Research (OAR) [for article: Delworth, T.L., Mann, M.E., Observed and Simulated Multidecadal Variability in the Northern Hemisphere, *Climate Dynamics*, 16, 661-676, 2000]
- 2002 Article [Mann et al., "Global-scale temperature patterns and climate forcing over the past six centuries", *Nature*, 392, 779-787, 1998] selected for 'fast moving fronts' by Institute for Scientific Information (ISI)
- 2002 Selected as one of 10 'Mead Honored Faculty', University of Virginia
- 1998 Council of Graduate Schools' Distinguished Dissertation Award, nominated
- 1997 Phillip M. Orville Prize for outstanding dissertation in the earth sciences, Yale University
- 1996 Alexander Hollaender Distinguished Postdoctoral Fellowship (DOE)
- 1989 Josiah Willard Gibbs Prize for outstanding research and scholarship in Physics, Yale University

Professional Experience (1996-present)

- 2009- Professor, Pennsylvania State University, Department of Meteorology [joint appointments in Department of Geosciences and Earth and Environmental Systems Institute (EESI)]
2005-09 Associate Professor, Pennsylvania State University, Department of Meteorology [joint appointments in Department of Geosciences and Earth and Environmental Systems Institute (EESI)]
2005- Director, Earth System Science Center (ESSC), Pennsylvania State University
1999-05 Assistant Professor, University of Virginia, Department of Environmental Sciences
1998-99 Research Assistant Professor, University of Massachusetts, Department of Geosciences
1997-98 Adjunct Assistant Professor, University of Massachusetts, Department of Geosciences
1996-98 Alexander Hollaender Distinguished Postdoctoral Research Fellow (DOE)

Courses Taught

Penn State University:

- EARTH 2 *The Earth System and Global Change*
EM SC 100S *Climate Change and Potential Societal Impacts (1st year seminar)*
ENNEC 472 *Quantitative Analysis in the Earth Sciences*
METEO 469 *From Meteorology to Mitigation: Understanding Global Warming*
METEO 470 *Climate Dynamics*
METEO 523 *Climate Modeling*
METEO 597B/GEOSCI 597B *Climate Dynamics Seminar*

University of Virginia:

- EVSC 181 *Climate Change: Past and Future*
EVSC 350 *Atmosphere and Weather*
EVSC 495 *Capstone Seminar: The Arctic*
EVCS 494/495/EVAT795 *Data Analysis & Climate Change*
EVSC 494/EVAT 796 *Climate and the History of Human Culture*
EVAT 554 *Ocean-Atmosphere Dynamics*
EVAT 793 *Statistical Climatology*
EVAT 795 *Modeling of Climate Variability*

University of Massachusetts:

- GEO 591 *Data Analysis & Climate Change*

Mentoring

Postdoctoral Researchers:

Penn State University (2005-)

Dept. of Meteorology:

- Zhihua Zhang, 2005-09
- Ryan Striver (NOAA Postdoctoral Fellow '08-09), 2008-2010

University of Virginia (1999-2005)

Dept. of Environmental Sciences:

- Feinbao Ni (joint w/ M. Hughes, University of Arizona), 2002-2003
- Pedro Ribera, (Visiting postdoctoral research fellow, University of Vigo, Spain), 2000
- Scott Rutherford, 2000-2003
- Mei-Yu (joint w/ H. Epstein), 2002-2003

Graduate Students:

Penn State University (2005-)

Dept. of Meteorology:

- Aviva Braun, M.S. 2009: committee member, 2008-09
- Fangxing Fan, Ph.D. 2011: major adviser, 2005-11
- Maria Herrmann, Ph.D. 2010: committee member, 2008-10
- Brandon Katz, M.S. 2009: co-adviser, 2006-09
- Muge Komercu, Ph.D. candidate: co-adviser, 2006-08
- Michael Kozar, M.S. 2011: major adviser, 2010-11
- Liang Ning, Ph.D. candidate: major adviser, 2008-
- Michelle Ricciardi, M.S. candidate: committee member, 2011
- Thomas Sabbatelli, M.S. 2009 (AMS Graduate Fellow): co-adviser, 2008-09

Dept. of Geosciences:

- Patrick Applegate, Ph.D. 2009: committee member, 2005-09
- Joshua Dorin, M.S. 2008: committee member, 2006-08
- John Mischler, M.S. 2008: committee member, 2007-08

Dept. of Geography:

- Chris Karmosky, Ph.D. candidate: committee member, 2009-

Dept. of Civil and Environmental Engineering

- Kathryn van Werkhoven, Ph.D. 2008: committee member, 2007-08

University of Virginia (1999-2005)

Dept. of Environmental Sciences:

- Julian Adams, M.S. 2003: major adviser, 2000-2003
- Kaycie Billmark, Ph.D. 2003: committee member, 1999-2003
- Joel Carr, M.S. 2002: committee member, 2000-2002
- Peter Cleary, M.S. 2004: co-adviser, 2002-2004
- Benjamin Cook, M.S. 2004: Ph.D. 2007: co-adviser, 2001-2005
- Dan Druckenbrod, Ph.D. 2003: committee member, 1999-2003
- Oliver Frauenfeld Ph.D. 2003: committee member, 2001-2003
- Ian German-Mesner, M.S. candidate: major adviser, 2002-
- Kevin Jones, M.S. 2002: committee member, 2001-2002
- Courtney Strong, Ph.D. 2005: committee member, 2003-2005
- Tana Wood, M.S. 2002; Ph.D. 2005: committee member, 2001-2005
- Zhihua Zhang, Ph.D. 2006: major adviser, 2000-2006

University of Massachusetts (1997-1999)

Dept. of Geosciences:

- Caspar Ammann, Ph.D. 2000: co-adviser, 1998-2000
- Anne Waple, Ph.D. 1999: co-adviser and committee member, 1997-1999
- Bo-Min Sun, Ph.D. 1999: committee member, 1998-1999

External Committee Member (2001-)

- Phil Lane, Ph.D. 2001: external committee member, MIT, 2010-11
- Heidi Cullen, Ph.D. 2001: external committee member, Columbia University, 2000-01
- Silvia Venegas, Ph.D. 2001: external committee member, University of Copenhagen, 2000-01

Undergraduates:

Penn State University (2005-)

Dept. of Meteorology:

- Thomas Sabbatelli, 2005-2008

University of Virginia (1999-2005)

Dept. of Environmental Sciences:

- Michelle L. Heuvelink, Distinguished Majors Research Project, University of Virginia, 2001-02.

Primary Research Interests

(1) Climate signal detection and climate change attribution; (2) Statistical and time series analysis methods; (3) High-resolution paleoclimate reconstruction; (4) Study of forced and internal variability in coupled ocean-atmosphere models; and model/data intercomparison; (5) Coupled ocean-atmosphere modeling; (6) Use of climate scenarios to drive process-oriented models of environmental phenomena

Funded Proposals

- 2011-2014 *Megadrought: Local vs Remote Causal Factors for Medieval North America*, NSF-Paleo Perspectives on Climate Change Program [Principal Investigator: S. Feng (Univ. of Nebraska); Co-Investigators: Q. Hu, R.J. Oglesby, C.M. Rowe (Univ. of Nebraska), M.E. Mann (Penn State Univ.)] PSU award (M.E. Mann): \$151,755
- 2011-2014 *Advanced Regional And Decadal Predictions Of Coastal Inundation for the U.S. Atlantic and Gulf Coasts*, NOAA-Improving NOAA's Climate Services for the Coastal Zone (Special Competition) [Principal Investigators: B. Horton (Univ. of Pennsylvania), J. Donnelly (WHOI), Reide Corbett (East Carolina Univ.), A. Kemp (Yale University), K. Lindeman (Florida Inst. Tech.), M.E. Mann (Penn State Univ.), D. Peltier (Univ. of Toronto, Canada), S. Rahmstorf (University of Potsdam, Germany)] PSU award (M.E. Mann): \$120,463
- 2011-2014 *Climate and Society - Innovative and Sustainable Collaboration with Senegal*, Penn State University-AESEA program [Principal Investigator: J.D. Fuentes; Co-Investigators: P. Tschakert, J. L. Evans, A. M. Thompson, and M.E. Mann] PSU internal award: \$75,000
- 2010-2012 *Scientific Input on Climate Change Outreach by a Network of Zoos and Aquariums*, NSF-Arctic Research & Education [Principal Investigators: A. Grajal (Chicago Zoological Society), S.R. Goldman (Univ. of Illinois-Chicago), M.E. Mann (Penn State Univ.)] PSU award (M.E. Mann): \$32,733
- 2010-2013 *Development of a Northern Hemisphere Gridded Precipitation Dataset Spanning the Past Half Millennium for Analyzing Interannual and Longer-Term Variability in the Monsoons*, NOAA-Climate Change Data & Detection (CCDD) Program [Principal Investigators: Q. Hu, S. Feng, R.J. Oglesby (Univ. of Nebraska), M.E. Mann (Penn State Univ.)] PSU award (M.E. Mann): \$249,800
- 2009-2013 *Quantifying the influence of environmental temperature on transmission of vector-borne diseases*, NSF-EF [Principal Investigator: M. Thomas; Co-Investigators: R.G. Crane, M.E. Mann, A. Read, T. Scott (Penn State Univ.)] \$1,884,991
- 2009-2012 *Toward Improved Projections of the Climate Response to Anthropogenic Forcing: Combining Paleoclimate Proxy and Instrumental Observations with an Earth System Model*, NSF-ATM [Principal Investigator: M.E. Mann; Co-Investigators: K. Keller (Penn State Univ.), A. Timmermann (Univ. of Hawaii)] \$541,184
- 2008-2011 *A Framework for Probabilistic Projections of Energy-Relevant Streamflow Indices*, DOE [Principal Investigator: T. Wagener; Co-Investigators: M. Mann, R. Crane, K. Freeman (Penn State Univ.)] \$330,000
- 2008-2009 *AMS Industry/Government Graduate Fellowship* (Anthony Sabbatelli), American Meteorological Society [Principal Investigator: M.E. Mann (Penn State Univ.)] \$25,000
- 2006-2009 *Climate Change Collective Learning and Observatory Network in Ghana*, USAID [Principal Investigator: P. Tschakert; Co-Investigators: M.E. Mann, W. Easterling (Penn State Univ.)] \$759,928
- 2006-2009 *Analysis and testing of proxy-based climate reconstructions*, NSF-ATM [Principal Investigator: M.E. Mann (Penn State Univ.)] \$459,000
- 2006-2009 *Constraining the Tropical Pacific's Role in Low-Frequency Climate Change of the Last Millennium*, NOAA-Climate Change Data & Detection (CCDD) Program [Principal Investigators: K. Cobb (Georgia Tech Univ.), N. Graham (Hydro. Res. Center), M.E. Mann (Penn State Univ.), Hoerling (NOAA Clim. Dyn. Center), Alexander (NOAA Clim. Dyn. Center)] PSU award (M.E. Mann): \$68,065
- 2006-2007 *Acquisition of high-performance computing cluster for the Penn State Earth System Science Center (ESSC)*, NSF-EAR [Principal Investigator: M.E. Mann, Co-Investigators: R. Alley, M. Arthur, J. Evans, D. Pollard (Penn State Univ.)] \$100,000
- 2003-2006 *Decadal Variability in the Tropical Indo-Pacific: Integrating Paleo & Coupled Model Results*, NOAA-Climate Change Data & Detection (CCDD) Program [Principal Investigators: M.E. Mann (U. Va.), J. Cole (U. Arizona), V. Mehta (CRCES)] U. Va award (M.E. Mann): \$102,000
- 2002-2005 *Reconstruction and Analysis of Patterns of Climate Variability Over the Last One to Two Millennia*, NOAA-Climate Change Data & Detection (CCDD) Program [Principal Investigator: M.E. Mann, Co-Investigators: S. Rutherford, R.S. Bradley, M.K. Hughes] \$315,000
- 2002-2005 *Remote Observations of Ice Sheet Surface Temperature: Toward Multi-Proxy Reconstruction of Antarctic Climate Variability*, NSF-Office of Polar Programs, Antarctic Oceans and Climate System [Principal Investigators: M.E. Mann (U. Va.), E. Steig (U. Wash.), D. Weinbrenner (U. Wash.)] U. Va award (M.E. Mann): \$133,000
- 2002-2003 *Paleoclimatic Reconstructions of the Arctic Oscillation*, NOAA-Cooperative Institute for Arctic Research (CIFAR) Program [Principal Investigator: Rosanne D'Arrigo, Ed Cook (Lamont/Columbia); Co-Investigator: M.E. Mann] U. Va subcontract (M.E. Mann): \$14,400
- 2002-2003 *Global Multidecadal-to-Century-Scale Oscillations During the Last 1000 years*, NOAA-Climate Change Data & Detection (CCDD) Program [Principal Investigator: Malcolm Hughes (Univ. of Arizona); Co-Investigators: M.E. Mann; J. Park (Yale University)] U. Va subcontract (M.E. Mann): \$20,775
- 2001-2003 *Resolving the Scale-wise Sensitivities in the Dynamical Coupling Between Climate and the Biosphere*, University of Virginia-Fund for Excellence in Science and Technology (FEST) [Principal Investigator: J.D. Albertson; Co-Investigators: H. Epstein, M.E. Mann] U. Va internal award: \$214,700
- 2001-2002 *Advancing predictive models of marine sediment transport*, Office of Naval Research [Principal Investigator: P. Wiberg (U. Va.), Co-Investigator: M.E. Mann] \$20,775
- 1999-2002 *Multiproxy Climate Reconstruction: Extension in Space and Time, and Model Data Intercomparison*, NOAA-Earth Systems History [Principal Investigator: M.E. Mann (U. Va.), Co-Investigators: R.S. Bradley, M.K. Hughes] \$381,647
- 1998-2000 *Validation of Decadal-to-Multi-century climate predictions*, DOE [Principal Investigator: R.S. Bradley (U. Mass); Co-Investigators: H.F. Diaz, M.E. Mann] \$266,235K
- 1996-1999 *Patterns of Organized Climatic Variability: Spatio-Temporal Analysis of Globally Distributed Climate Proxy Records and Long-term Model Integrations*, NSF-Earth Systems History [Principal Investigator: R.S. Bradley (U. Mass); Co-Investigators: M.E. Mann, M.K. Hughes] \$270,000
- 1996-1998 *Investigation of Patterns of Organized Large-Scale Climatic Variability During the Last Millennium*, DOE, Alexander Hollaender Postdoctoral Fellowship [M.E. Mann] \$78,000

Professional Activities

- 2011-15 Elected Member-at-Large of Section W (Atmospheric & Hydrospheric Sciences), *American Association for the Advancement of Science (AAAS)*
- 2011 Invited Science Foo Camp ("Sci Foo") participant, event organized by Nature, O'Reilly Media, and Google, Googleplex, Mountain View, CA, July 30-Aug 1, 2010
- 2010 Co-convenor/organizer (w/ G. Stone, A. Buddington), Session on "Exposing Myths and Misrepresentations of Climate Change and Evolution Science", *GSA Annual Meeting*
- 2009 Co-convenor/organizer (w/ G. Stone, A. Buddington), Pardee Keynote Symposium on "Crisis in The Cryosphere", *GSA Annual Meeting*
- 2009 Guest Editor, *Proceedings of the National Academy of Sciences*
- 2009 Panel Discussion Participant, "Communicating Climate Change", National Science Foundation, Arlington VA, 2009, January 8
- 2007-08 Associate Editor, *G-Cubed*, special issue on "Tropical Cyclone-Climate Interactions on All Time Scales"
- 2007 Co-convenor/organizer (w/ P. Jones), IAMAS session on "The Holocene-Anthropocene Transition: From Natural to Human-Dominance of the Earth System", *JUGG 24th General Assembly*
- 2007-08 Member of steering committee, "post-Earth Systems History" workshop, NSF
- 2007 Co-convenor/organizer (w/ J. Jouzel, P. Jones, W. Dullo), special session "Climate of the last millennium", 4th General Assembly, *European Geophysical Union*
- 2006 Co-convenor/organizer (w/ K. Emanuel, M. Huber, J. Gille, P. Webster), theme session "Tropical Cyclone-Climate Interactions on All Time Scale", Annual Fall meeting, *American Meteorological Society*
- 2006 Provided testimony to U.S. House of Representatives ("Energy and Commerce" Committee hearing, July 27)
- 2006 Co-chair, Workshop on "Past Millennium Climate Variability", Wengen Switzerland
- 2006 Co-convenor/organizer (w/ J. Jouzel, P. Jones, W. Dullo), special session "Climate of the last millennium", 3rd General Assembly, *European Geophysical Union*
- 2005-06 Editorial advisory board, *The Holocene*
- 2005-06 Expert Reviewer, Working Group I report, *Intergovernmental Panel on Climate Change (IPCC)*, Fourth Assessment Report
- 2005 Co-convenor/organizer (w/ J. D. Gong and Luterbacher), special session "Explaining the Climates of Historic Times: Detection and Attribution of Anthropogenic Influences", Biennial Assembly of *IAMAS*
- 2005 Co-convenor/organizer (w/ J. Jouzel, P. Jones, W. Dullo), special session "Climate of the last millennium", 2nd General Assembly, *European Geophysical Union*
- 2004 Co-convenor/organizer (w/ J. Jouzel, P. Jones, W. Dullo), special session "Climate of the past millennium", 1st General Assembly, *European Geophysical Union*
- 2003-04 Member, National Academy of Sciences/National Research Council Committee on Radiative Forcing Effects on Climate

- 2003 Provided testimony to U.S. Senate ('Environment and Public Works' Committee hearing, July 29)
- 2003 Chair of organizing committee, National Academy of Sciences *Frontiers of Science* symposium
- 2003 Co-convenor/organizer (w/ J. Jones, V. Masson-Delmotte), IAMAS session on "Climate of the Holocene", *IUGG*
- 2003 Co-convenor/organizer (w/ J. Jouzel, P. Jones, W. Dulla), special session "Climate of the past millennium", 28th General Assembly, *European Geophysical Society*
- 2003-05 Advisory board member for *Scientific American* "Scientific American 50"
- 2003 Invited Participant, *Workshop on Estimating Climate Sensitivity*, National Academy of Sciences
- 2003-06 Member of steering committee, NSF Marine Earth Systems History (MESH) Panel
- 2003-05 Committee on Probability & Statistics, American Meteorological Society
- 2002- IAMAS delegate for U.S./International Commission on Climate (ICCL)
- 2002 Organizing committee, National Academy of Sciences *Frontiers of Science* symposium
- 2002 Co-convenor/organizer (w/ H. Von Storch, R. Braziil), theme session "Understanding the Late Maunder Minimum climate anomaly", Annual Spring meeting, *American Geophysical Union*
- 2002 Co-convenor/organizer (w/ J. Jouzel, P. Jones, W. Dulla), special session "Climate of the past millennium", 27th General Assembly, *European Geophysical Society*
- 2001-02 Member, advisory board, *Earth Interactions* (American Geophysical Union)
- 2001 Chair/Organizer, session on "Climate Change Detection/Attribution", National Academy of Science *Frontiers of Science* annual symposium, Irvine, California, Nov 8-10, 2001.
- 2001 Organizer and Host, *PAGES/CLIVAR workshop on Reconstructing Late Holocene Climate*, Charlottesville, Virginia, April 17-20, 2001.
- 2001 Co-convenor/organizer (w/ J. Jouzel, P. Jones), special session "Climate of the past millennium", 26th General Assembly, *European Geophysical Society*
- 2001 Co-convenor/organizer, *NASA/IPRC CLIVAR workshop on Decadal Climate Variability*, Manoa, Hawaii, Jan 8-12, 2001.
- 2000- Member of Working Group, *International PAGES/CLIVAR*
- 2000-04 Panel member, *NOAA Climate Change Data and Detection Program*
- 2000-02 Editor, *Journal of Climate*
- 2000 Co-convenor (w/ J. Jouzel, P. Jones), special session "Climate of the past millennium", 25th General Assembly, *European Geophysical Society*
- 1999 Co-convenor/organizer (w/ J. Jouzel), special session "Data and model studies of climate changes over the last millennium", 24th General Assembly, *European Geophysical Society*
- 1999 Invited adviser, *NOAA Global Change and Climate Panel*, Boulder, CO
- 1999 Guest editor, special issue of *Climate Change*
- 1999 Co-convenor (w/ J. Overpeck), *PAGES/CLIVAR workshop on multiproxy climate reconstruction*, Boulder, CO
- 1998-00 Lead author, Chapter 2, *Intergovernmental Panel on Climate Change (IPCC)*, Third Assessment Report
- 1998-00 Contributing author, Chapters 7,8,12, *Intergovernmental Panel on Climate Change (IPCC)*, Third Assessment Report
- 1997 Co-convenor/organizer (w/ E. Cook, H. Pollack, D. Chapman), theme session "Multiproxy Climate Reconstruction...", Annual Fall meeting, *American Geophysical Union*
- Memberships: *American Meteorological Society*; *American Geophysical Union*; *European Geophysical Society*; *Geological Society of America*; *American Physical Society*; *American Association for the Advancement of Science*; *Sigma Xi*
- Reviewer for: *Nature*; *Science*; *PNAS*; *Geology*; *Climatic Change*; *Geophysical Research Letters*; *Journal of Climate*; *JGR-Ocean*; *JGR-Atmospheres*; *Paleoceanography*; *Climate Dynamics*; *Eos*; *Int. J. Climatol.*; *Water Resources Research*; *Holocene*; *GSA Today*; *Climate of the Past*; *Earth and Planetary Science Letters*; *Global & Planetary Change*; *Water Resources Research*; *Atmospheric & Solar-Terrestrial Physics*; *Climate Research*; *PLoS Biology*; *National Research Council/National Academy of Sciences*; *IPCC AR5*; *NSF*; *NOAA*, DOE grant programs; *U.S. CCSP*; several books.

Public Outreach:

- Popular Media (interviewed/quoted/cited):
- Television:** *CBS Evening News*, *NBC Evening News*, *ABC Evening News*, *NBC Today Show*, *CNN*, *CNN headline news*, *CNN (Lou Dobbs show)*, *CNN (Campbell Brown Show)*, *MSNBC*, *PBS*, *BBC Channel 2: The Weather Channel*, *The Research Channel*, *Accuweather ("Headline Earth")*, *Weather World (PCN)* (and numerous local television news programs)
- Radio:** *BBC*, *NPR ("All Things Considered")*, *Talk of the Nation*; "Earth and Sky"; "Science Friday"; "Diane Rehm Show"; "On Point with Tom Ashbrook"; *PRJ ("To The Point")*, *WCBS*, *Voice of America*; *Pennsylvania Public Radio*; "Explorations in Science" with Michio Kaku, *KTRH radio (Houston)*, *Radio PA (Harrisburg)*, *WWL Radio News (New Orleans)* (and numerous others)
- Print (weekly/monthly):** *Time*, *Newsweek*, *Life*, *US News & World Report*, *New Republic*, *Economist*, *Rolling Stone*, *Vanity Fair*, *Mother Jones*, *American Prospect*, *The Nation*, *Chronicle of Higher Education*, *Miller-McCune* (and numerous others)
- Print (weekly/monthly scientific):** *Scientific American*, *New Scientist*, *National Geographic*, *Discover*, *Science News*, *Science*, *Nature*, *Popular Science*, *Seed*, *Cosmos*, *Geotimes*, *Weekly Reader ("current science")*, *Audubon Magazine* (and numerous others)
- Print (daily):** *USA Today*, *New York Times*, *New York Times "Science Times"*, *New York Daily News*, *Washington Post*, *Wall Street Journal*, *National Journal*, *Boston Globe*, *Los Angeles Times*, *San Francisco Chronicle*, *Seattle Times*, *Houston Chronicle*, *Chicago Tribune*, *International Herald Tribune*, *Philadelphia Inquirer*, *Pittsburgh Tribune-Review*, *Pittsburgh Post-Gazette*, *Miami Herald*, *Washington Times*, *Christian Science Monitor*; *National Post (Canada)*; *London Times (UK)*, *The Guardian (UK)*, *Die Welt (Germany)*, *Le Monde (France)*, *Pravda (Russia)* (and numerous others)
- Print (daily syndicated):** *AP*, *UPI*, *Reuters*, *Scripps Howard*, *Knight Ridder*, *McClatchy*, *Ascribe*, *Greenwire*
- Online:** *Salon.com*, *Slate.com*, *Discovery Channel online*, *National Geographic online*, *LiveScience* (and numerous others)
- Profiles:** *Scientific American*, *Discover*, *Fortune*, *New Scientist*, *Mother Jones*, *Audubon Magazine*, *Williamsport Guardian*
- Other:** *Museum of Modern Art (New York)*, assistance with exhibition on "Design and the Elastic Mind", Fall 2007
- Op-Eds/Commentaries: published: *Politico* (Mar 8, 2010), *New Scientist* (Nov 2, 2010), *Milwaukee Journal Sentinel* (Oct 9, 2010), *Washington Post* (Oct 8, 2010), *Minneapolis Star-Tribune* (Jul 29, 2010), *Voices of Central Pennsylvania* (Feb 2010), *Washington Post* (Dec 18, 2009; reprinted in *Miami Herald* 12/19/09, *Salt Lake Tribune* 12/18/09, and *Monterey Herald* 12/21/09), *Harrisburg Patriot-News* (PA; Feb 11, 2007), *St Louis Post-Dispatch* (Feb 23, 2006), *The Press (NJ)* (Feb 7, 2006), *Roanoke Times* (Feb 7, 2006), *Middleton Times-Herald* (NY; Feb 7, 2006), *Akron Beacon Journal* (Feb 6, 2006), *Anniston Star* (AL; Feb 5, 2006), *Newark Star-Ledger* (Feb 5, 2006), *Salt Lake Tribune* (Feb 5, 2006), *Post Standard* (NY; Feb 2, 2006), *Providence Journal* (Oct 3, 2003), *Seattle News-Tribune* (Aug 10, 2003)
- Press Conferences: *American Geophysical Union* (5/30/2002); *European Geophysical Union* (4/23/09); *National Science Foundation* (8/11/09); *Resource Media* (11/24/09); *American Geophysical Union* (12/17/09); *National Wildlife Federation* (8/25/10); *PennEnvironment* (9/8/10); *Prism Public Affairs* (11/18/10)
- Guest contributor to: *The Weather Channel's* climate site "One Degree" (since 9/06); *Seed Magazine* (May 21, 2007; "Play By the Rules, But Be Clever")
- Co-founder and contributor, climate science website, "RealClimate.org" (founded 12/04)
- Scientific Advisor for *Polar Bears International*, 2010-
- Science Advisory Board Member, *Climate Change Communication Network*, 2010-
- Advisory Board, *OurEarth.org*, 2008-
- Science Advisory Council, *ISky*, 2008-
- Content Committee, *Climate Solutions Project*, Bowman Group, 2007-
- Advisory Committee, "CLUES" (museum/community partnership of the *Franklin Institute Science Museum*, Phila. PA), 2009-
- Advisor to numerous policy makers, public policy experts, governmental and non-governmental organizations (1999-)

Books:

- Mann, M.E. and Kump, L.R., *Dire Predictions: Understanding Global Warming*, Pearson/DK, 208 pp. 2008.

Refereed Journal Articles:

- Kemp, A.C., Horton, B.P., Donnelly, J.P., Mann, M.E., Vermeer, M., Rahmstorf, S., Climate related sea-level variations over the past two millennia, *Proc. Nat. Acad. Sci.* (early edition), doi:10.1073/pnas.1015619108, 2011.
- Srivier, R.L., Goes, M., Mann, M.E., Keller, K., Climate response to tropical cyclone-induced ocean mixing in an Earth system model of intermediate complexity, *J. Geophys. Res.*, 115, C10042, doi:10.1029/2010JC006106, 2010.
- Fan, F., Mann, M.E., Lee, S., Evans, J.L., Observed and Modeled Changes in the South Asian Summer Monsoon Over the Historical Period, *J. Climate* 23, 5193-5205, 2010.
- Rutherford, S.D., Mann, M.E., Ammann, C., Wahl, E., Comment on: "A surrogate ensemble study of climate reconstruction methods: Stochasticity and robustness" by Christiansen, Schmidt and Thejll, *J. Climate*, 23, 2832-2838, 2010.
- Foster, G., Annan, J.D., Jones, P.D., Mann, M.E., Mullan, B., Renwick, J., Salinger, J., Schmidt, G.A., Trenberth, K.E., Comment on "Influence of the Southern Oscillation on tropospheric temperature" by J. D. McLean, C. R. de Freitas, and R. M. Carter, *J. Geophys. Res.*, 115, D09110, doi:10.1029/2009JD012960, 2010.
- Goosse, H., Crespin, E., de Montety, A., Mann, M.E., Renssen, H., Timmermann, A., Reconstructing surface temperature changes over the past 600 years using climate model

- simulations with data assimilation, *J. Geophys. Res.*, 115, D09108, doi:10.1029/2009JD012737, 2010.
- Mann, M.E., Zhang, Z., Rutherford, S., Bradley, R.S., Hughes, M.K., Shindell, D., Ammann, C., Faluvegi, G., Ni, F., Global Signatures and Dynamical Origins of the "Little Ice Age" and "Medieval Climate Anomaly", *Science*, 326, 1256-1260, 2009.
 - Mann, M.E., Woodruff, J.D., Donnelly, J.P., Zhang, Z., Atlantic hurricanes and climate over the past 1,500 years, *Nature*, 460, 880-883, 2009.
 - Crespin, E., Goosse, H., Fichet, T., Mann, M.E., The 15th century Arctic warming in coupled model simulations with data assimilation, *Clim. Past*, 5, 389-405, 2009.
 - Mann, M.E., Do Global Warming and Climate Change Represent a Serious Threat to Our Welfare and Environment? *Social Philosophy and Policy*, 26, 193-230, 2009.
 - Malone, R.W., Meek, D.W., Hatfield, J.L., Mann, M.E., Jaquis, R.J., Ma, L., Quasi-Biennial Corn Yield Cycles in Iowa, *Agricultural and Forest Meteorology*, 149, 1087-1094, 2009.
 - Fan, F., Mann, M.E., Ammann, C.M., Understanding Changes in the Asian Summer Monsoon over the Past Millennium: Insights From a Long-Term Coupled Model Simulation, *J. Climate*, 22, 1736-1748, 2009.
 - Mann, M.E., Schmidt, G.A., Miller, S.K., LeGrande, A.N., Potential Biases in Inferring Holocene Temperature Trends from Long-Term Borehole Information, *Geophys. Res. Lett.*, 36, L05708, doi:10.1029/2008GL036354, 2009.
 - Steig, E.J., Schneider, D.P., Rutherford, S.D., Mann, M.E., Comiso, J.C., Shindell, D.T., Warming of the Antarctic ice sheet surface since the 1957 International Geophysical Year, *Nature*, 457, 459-463, 2009.
 - Jones, P.D., Briffa, K.R., Osborn, T.J., Lough, J.M., van Ommen, T.D., Vinther, B.M., Luterbacher, J., Wahl, E.R., Zwiers, F.W., Mann, M.E., Schmidt, G.A., Ammann, C.M., Buckley, B.M., Cobb, K.M., Esper, J., Goosse, H., Graham, N., Jansen, E., Kiefer, T., Kull, C., Kuttel, M., Mosely-Thompson, E., Overpeck, J.T., Riedwyl, N., Schulz, M., Tudhope, A.W., Villalba, R., Wanner, H., Wolff, E., Xoplaki, E., High-resolution paleoclimatology of the last millennium: a review of current status and future prospects, *Holocene*, 19, 3-49, 2009.
 - Wei, F., Xie, Y., Mann, M.E., Probabilistic trend of anomalous summer rainfall in Beijing: Role of interdecadal variability, *J. Geophys. Res.*, 113, D20106, doi:10.1029/2008JD010111, 2008.
 - Rutherford, S., Mann, M.E., Wahl, E., Ammann, C., Reply to: "Comment on 'Robustness of proxy-based climate field reconstruction methods', by Mann et al.", *J. Geophys. Res.*, 113, D18107, doi:10.1029/2008JD009964, 2008.
 - Mann, M.E., Zhang, Z., Hughes, M.K., Bradley, R.S., Miller, S.K., Rutherford, S., Ni, F., Proxy-Based Reconstructions of Hemispheric and Global Surface Temperature Variations over the Past Two Millennia, *Proc. Natl. Acad. Sci.*, 105, 13252-13257, 2008.
 - Mann, M.E., Smoothing of Climate Time Series Revisited, *Geophys. Res. Lett.*, 35, L16708, doi:10.1029/2008GL034716, 2008.
 - Foster, G., Annan, J.D., Schmidt, G.A., Mann, M.E., Comment on 'Heat Capacity, Time Constant, and Sensitivity of Earth's Climate System,' by S. E. Schwartz, *J. Geophys. Res.*, 113, D15102, doi:10.1029/2007JD009373, 2008.
 - Mann, M.E., Rutherford, S., Wahl, E., Ammann, C., Reply to Comments on "Testing the Fidelity of Methods Used in Proxy-based Reconstructions of Past Climate" by Smerdon and Kaplan, *J. Climate*, 20, 5671-5674, 2007.
 - Mann, M.E., Sabbatelli, T.A., Neu, U., Evidence for a Modest Undercount Bias in Early Historical Atlantic Tropical Cyclone Counts, *Geophys. Res. Lett.*, 34, L22707, doi:10.1029/2007GL031781, 2007.
 - Sabbatelli, T.A., Mann, M.E., The Influence of Climate State Variables on Atlantic Tropical Cyclone Occurrence Rates, *J. Geophys. Res.*, 112, D17114, doi:10.1029/2007JD008385, 2007.
 - Mann, M.E., Emanuel, K.A., Holland, G.J., Webster, P.J., Atlantic Tropical Cyclones Revisited, *Eos*, 88, 36, 349-350, 2007.
 - Mann, M.E., Rutherford, S., Wahl, E., Ammann, C., Reply to Comments on "Testing the Fidelity of Methods Used in Proxy-based Reconstructions of Past Climate" by Zorita et al., *J. Climate*, 20, 3699-3703, 2007.
 - Mann, M.E., Rutherford, S., Wahl, E., Ammann, C., Robustness of Proxy-Based Climate Field Reconstruction Methods, *J. Geophys. Res.*, 112, D12109, doi:10.1029/2006JD008272, 2007.
 - Mann, M.E., Climate Over the Past Two Millennia, *Annu. Rev. Earth Planet. Sci.*, 35, 111-136, 2007.
 - Goosse, H., Arzel, O., Luterbacher, J., Mann, M.E., Renssen, H., Riedwyl, N., Timmermann, A., Xoplaki, E., Wanner, H., The origin of the European "Medieval Warm Period", *Clim. Past*, 2, 99-113, 2006.
 - Goosse, H., Renssen, H., Timmermann, A., Bradley, R.S., Mann, M.E., Using paleoclimate proxy-data to select optimal realisations in an ensemble of simulations of the climate of the past millennium, *Climate Dynamics*, 27, 165-184, 2006.
 - Mann, M.E., Emanuel, K.A., Atlantic Hurricane Trends linked to Climate Change, *Eos*, 87, 24, 233-241, 2006.
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- Schmidt, G., Mann, M.E., Historical Climatology in Greenland, *RealClimate.org*, November 27, 2006.
- Schmidt, G., Mann, M.E., The Trouble with Sunspots, *RealClimate.org*, September 13, 2006.
- Mann, M.E., Schmidt, G., Tropical SSTs: Natural Variations or Global Warming, *RealClimate.org*, September 11, 2006.
- Mann, M.E., Schmidt, G., Fact, Fiction, and Friction in the Hurricane Debate, *RealClimate.org*, August 13, 2006.
- Mann, M.E., Jones, P.D., More on the Arctic, *RealClimate.org*, May 22, 2006.
- Mann, M.E., A New Take on an Old Millennium, *RealClimate.org*, February 9, 2006.
- Mann, M.E., Groundhog Day, *RealClimate.org*, February 2, 2006.
- Schmidt, G., Mann, M.E., Decrease in Atlantic Circulation? *RealClimate.org*, November 30, 2005.
- Mann, M.E., The False Objectivity of Balance, *RealClimate.org*, November 18, 2005.
- Mann, M.E., Q&A: Global Warming, *RealClimate.org*, October 14, 2005.
- Schmidt, G., Mann, M.E., Inhofe and Crichton: Together at Last! *RealClimate.org*, September 28, 2005.
- Rahmstorf, S., Mann, M.E., Benestad, R., Schmidt, G., Connolley, W., Hurricanes and Global Warming - Is There a Connection? *RealClimate.org*, September 2, 2005.
- Mann, M.E., Schmidt, G., Peer Review: A Necessary but not Sufficient Condition II, *RealClimate.org*, January 27, 2005.
- Mann, M.E., Rahmstorf, S., Schmidt, G., Steig, E., Connolley, W., Senator Inhofe on Climate Change, *RealClimate.org*, January 20, 2005.
- Mann, M.E., On yet Another False Claim by McIntyre and McKittrick, *RealClimate.org*, January 6, 2005.
- Mann, M.E., Michael Crichton's State of Confusion II: Return of the Science, *RealClimate.org*, December 15, 2004.
- Mann, M.E., Schmidt, G., Climate Change Disinformation, *RealClimate.org*, December 11, 2004.
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- Mann, M.E., Temperature Variations in Past Centuries and the so-called "Hockey Stick", *RealClimate.org*, December 10, 2004.
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- Mann, M.E., Paleoclimate Implications for Recent Human Influence on Climate, *International Seminar on Nuclear War and Planetary Emergencies, Nuclear Strategy and Peace Technology, The Science and Culture Series*, edited by A. Zichichi, R. Ragaini, pp. 86-91, 2003.
- Mann, M.E., Bradley, R.S., Hughes, M.K., Large-Scale Surface Temperature Changes During the Past Millennium, *Abstracts of AMQUA annual meeting*, Fayetteville, Arkansas, May 22-24, pp 17-12, 2000.
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- M.K. Hughes, Mann, M.E., Bradley, R.S., Climate variability of the last 1000 years from annual-resolution natural archives. *Proceedings of CCV99, International Conference on Climate Change and Variability*, Tokyo Metropolitan University, September 1999.
- Mann, M.E., Bradley, R.S., Global Climate Variations over the Past 250 Years: Relationships With the Middle East, *Transformations of Middle Eastern Natural Environments: Legacies and Lessons*, Yale School of Forestry and Environmental Studies Bulletin Series, 103, 429-443, 1998.
- Mann, M.E., On Reconstructing Past Centuries' Temperatures, *World Climate Report*, 3, 26, 6-7, 1998.
- Mann, M.E., A Study of Ocean-Atmosphere Interaction and Low Frequency Variability of the Climate System, PhD Thesis, 283pp, Yale University, New Haven, CT, 1998.
- Mann, M.E., Bradley, R.S., Hughes, M.K., Multiproxy based reconstructions of large-scale surface temperature patterns during the past several centuries, *Proceedings of the Ninth Symposium on Global Change Studies*, Phoenix, AZ, January 1998.
- Rajagopalan, B., Mann, M.E., Lall, U., Climatic forecasting based on multivariate frequency and time domain-based prediction, *Proceedings of the Eighth Symposium on Global Change Studies*, Long Beach, CA, February 1997.
- Mann, M.E., Bradley, R.S., Hughes, M.K., Large-Scale Climatic Reconstructions Based on High-Resolution Multi-Proxy Data, *Proceedings of the Eighth Symposium on Global Change Studies*, Long Beach, CA, February 1997.
- Mann, M.E., Rajagopalan, B., Moon, Y.I., Lall, U., Climatic forecasting based on multivariate frequency and time domain-based predictions, *Proceedings of the 13th Conference on Probability & Statistics in the Atmospheric Sciences*, American Meteorological Society, San Francisco, CA, February 1996.
- Moon, Y.I., Lall, U., Rajagopalan, B., Mann, M.E., Forecasting hydroclimatic variables using a nonparametric, nonlinear time series model, *Proceedings of the 13th Conference on Probability & Statistics in the Atmospheric Sciences*, American Meteorological Society, San Francisco, CA, February 1996.
- Marshall, S., Mann, M.E., Oglesby, R.J., Saltzman, B., A comparison of the CCM1-simulated climates for pre-industrial and present-day CO2 levels, *Proceedings of the 6th Conference on Climate Variations*, American Meteorological Society, 12-15, Nashville, TN, January 1994.
- Mann, M.E., Park, J., Globally correlated variability in surface temperatures, *Proceedings of the 6th Conference on Climate Variations*, American Meteorological Society, 297-301, Nashville, TN, January 1994.

Invited & Public Lectures, Workshops, and Panels

- Invited presentation, 7th International Congress on Industrial and Applied Mathematics (ICIAM), "Climate Global Signatures of the "Little Ice Age" and "Medieval Anomaly"", Vancouver, BC, Canada, July 20, 2011.
- Invited public lecture, "Dire Predictions: Understanding Global Warming", Cary Institute of Ecosystem Studies, Millbrook, NY, July 15, 2011.
- Featured event speaker, "Climate Change: Learning From Centuries Past", Earth Science Teacher Workshop on Ancient Climate Change, State College, PA, June 16, 2011.
- Invited plenary luncheon lecture, "On the Front Lines in the Climate Wars", Annual meeting of the American Association of University Professors (AAUP), Washington, DC, June 10, 2011.
- Invited lecture, "Climate Change: What We Can Learn from Past Centuries", NOAA Geophysical Fluid Dynamics Laboratory, Princeton, NJ, May 19, 2011.
- Featured event speaker, "The Role of Meteorology in Climate Change", Chi Epsilon Pi, Penn State University Chapter, Forty-second Annual Spring Banquet, Penn State University, State College, PA, April 26, 2011.
- Invited public lecture, "The Hockey Stick: On the Front Lines in the Climate Wars", Five Colleges Geology Lecture Series, Mt. Holyoke College, South Hadley, MA, April 21, 2011.
- Invited lecture, "Climate Change: What We Can Learn from Past Centuries", Stout Lecture Series, Department of Earth and Atmospheric Sciences, University of Nebraska, Lincoln, NE, April 8, 2011.
- Invited public lecture, "Dire Predictions: Understanding Global Warming", School of Natural Resources Public Lecture Series, University of Nebraska, Lincoln, NE, April 7, 2011.
- Keynote lecture, "Dire Predictions: Understanding Global Warming", Joint Annual Meeting of the Pennsylvania Academy of Science and Pennsylvania Wildlife Society, Penn State-Altoona, Altoona, PA, April 2, 2011.
- Invited participant, NASA-NOAA-NSF Climate Change Education Principal Investigators Meeting, George Mason University, Fairfax, VA, Feb 28-Mar 2, 2011.
- Invited presentation, AGU Fall meeting: "Climate Scientists In The Public Arena: Who's Got Our Backs?", San Francisco, CA, Dec 16, 2010.
- Invited presentation, AGU Fall meeting: "Weathering the Climate Change Communication Storm", San Francisco, CA, Dec 16, 2010.
- Panel discussion on climate change and polar bears (webcast) sponsored by Polar Bears International (for Pittsburgh Zoo), Churchill, MB, Canada, Nov 13, 2010.
- Invited presentation, "Climate Research, Politics, and Communicating Science", New Horizons in Science, Council For the Advancement of Science Writing, New Haven, CT, Nov 7, 2010.
- Invited presentation, "Beyond the Hockey Stick", National Climate Seminar, Bard Center for Environmental Policy, (teleconference) Bard College, Nov 3, 2010.
- Invited presentation, GSA Annual meeting: "Fighting A Strong Headwind: Challenges in Communicating the Science of Climate Change", Denver, CO, Nov 2, 2010.
- Invited public lecture, "Dire Predictions: An Evening with Michael Mann", Briar Bush Nature Center, Abington, PA, Oct 14, 2010.
- Invited public lecture, "Dire Predictions: Understanding Global Warming", Libraries Fall Public Program, Temple University, Philadelphia, PA, Oct 13, 2010.
- Invited presentation, Symposium: The Medieval Warm Period Redux - Where and when was it warm?, Lisbon Portugal, Sep 22-24, 2010.
- Invited presenter, Polar Bears International Panel Discussion, Annual Meeting of the Association of Zoos and Aquariums (AZA), Houston, TX, Sep 13, 2010.
- Invited plenary presentation, 11th International Meeting on Statistical Climatology, "Global Signatures of the 'Little Ice Age' and 'Medieval Climate Anomaly' and Plausible Dynamical Origins", University of Edinburgh, Edinburgh, Scotland, July 13, 2010.
- Invited Panel Member, "Climate Science in an Impolitic World", Climate & Sustainability: Moving by Degrees, Marketplace from American Public Radio, Pasadena, CA, Jun 9, 2010.
- Invited public lecture, "Dire Predictions: Understanding Global Warming", Jane Claire Dirks-Edmunds lecture in ecology, Department of Biology, Linfield College, McMinnville, OR, May 11, 2010.
- Invited public lecture, "The Facts Behind Global Warming", PennFuture's Global Warming Conference: "Creating a Climate for Justice", Pittsburgh, PA, May 2, 2010.
- Invited public lecture, "Dire Predictions: Understanding Global Warming", "Current Issues" series, Foulkeways, Gwynedd, PA, Apr 23, 2010.
- Invited lecture, Learning About Climate Dynamics Using Paleoclimate Information From Past Centuries, Eighth Atmospheric Science Symposium, UC Berkeley Atmospheric Sciences Center (BASC), UC Berkeley, Berkeley, CA, Feb 26, 2010.
- Invited lecture, "Climate Change: What Can We Learn From Past Centuries?", Dept. of Geography, Penn State University, University Park, PA, Feb 12, 2010.
- Invited presentation, American Meteorological Society 22nd Conference on Climate Variability and Change, "Global Signatures of the 'Little Ice Age' and 'Medieval Climate Anomaly' and Plausible Dynamical Origins", Atlanta, GA, Jan 19, 2010.
- Invited presentation, AGU Fall meeting: "Global Signatures of the 'Little Ice Age' and 'Medieval Climate Anomaly' and Plausible Dynamical Origins", San Francisco, CA, Dec 18, 2009.
- Invited presentation, AGU Fall meeting: "Communicating Climate Change", San Francisco, CA, Dec 17, 2009.
- Invited presentation, Conference on Climates and Humans: "Climate of the past millennium", Cité des Sciences, Paris, France Nov 21 2009
- Invited presentation, Geology & Geophysics Alumni Conference: "Climate Change Insights from the Paleoclimate Record of Past Centuries", Yale University, New Haven, CT, Nov 7, 2009.
- Session introduction, Pardee Keynote Symposium: "Crisis in the Cryosphere", Geological Society of America (GSA) Joint Annual meeting, Portland, Oregon, Oct 21, 2009.
- Keynote lecture, "Dire Predictions: Understanding Global Warming", Stewardship or Sacrifice? Religion & the Ethics of Climate Change, Penn State University, University Park, PA, Oct 7, 2009.
- Invited presentation, Plant-Soil Interactions in Future Climates (17th Penn State Plant Biology Symposium): "Climate Change: The science, projected impacts, and possible solutions", University Park, PA, May 19, 2009.
- Invited participant, "Ocean on The Edge: Top Ocean Issues", Aquarium of the Pacific, May 12-14 2009.
- Invited public lecture, "Dire Predictions: Understanding Global Warming", Virginia Festival of the Book, Charlottesville, VA, Mar 20, 2009.
- Invited presentation (co-authors R. Bradley, E. Cressin, H. Goosse, M.K. Hughes, S. Rutherford, D. Shindell, Z. Zhang) "Towards Understanding Patterns of Climate Change in Past

- Centuries", *Joint IPCC-WCRP-IGBP Workshop: New Science Directions and Activities Relevant to the IPCC AR5*, Honolulu, HI, Mar 3, 2009.
- Invited public lecture, "Dire Predictions: Understanding Global Warming", ISET NOAA Cooperative Institute, North Carolina A&T University, Greensboro, NC, Feb 24, 2009.
 - Invited presentation, AGU Fall meeting: "Fighting A Strong Headwind: Challenges in Communicating the Science of Climate Change", San Francisco, CA, Dec 17, 2008.
 - Invited presentation (co-authors R. Bradley, E. Cressin, H. Goosse, M.K. Hughes, S. Rutherford, D. Shindell, Z. Zhang), AGU Fall meeting: "Towards Understanding Patterns of Climate Change in Past Centuries", San Francisco, CA, Dec 16, 2008.
 - Invited presentation, *Conference on New Methodologies and Interdisciplinary Approaches in Global Change Research* (European Science Foundation): "Climate Change: Past and Future", Porquerolles, France, Nov 7, 2008.
 - Invited presentation, *Geological Society of America (GSA) Joint Annual meeting*: "Global Climate Change: The Science, Likely Impacts, and Possible Solutions", Houston, TX, Oct 7, 2008.
 - Invited lecture, "Projections of Future Climate Change", CIDD Seminar Series, Huck Institutes of the Life Sciences, Penn State University, PA, Sep 26, 2008.
 - Invited public lecture, "Dire Predictions: Understanding Global Warming", 2008 Honors Colloquium, University of Rhode Island, RI, Sep 23, 2008.
 - Invited public lecture, "The Science of Climate Change", Bruce Museum, Greenwich, CT, Sep 21, 2008.
 - Invited participant, *Workshop on Tree Rings and Modeling of Asian Monsoon Climate Dynamics*, Lamont Doherty Earth Observatory/Columbia University, Palisades, NY, Sep 10-11, 2008.
 - Invited guest lecture, *Summer Institute on Hydrological Change During the Colonial Era*, Massachusetts Institute of Technology, Jul 3, 2008.
 - Invited guest lecture, *Elderhostel course on Future of Technology*, Penn State University, State College, PA, Jun 26 2008.
 - Invited panelist, *Liberty and Environmentalism*, Orlando FL, The Liberty Fund, Jun 19-21, 2008.
 - Invited lecture, "Climate Change: The Science, The Likely Impacts, and Possible Solutions", Winton Lecture Series, Winton Group, Oxford, UK, Jun 13 2008.
 - Invited presentation, *Workshop on Reducing and Representing Uncertainties in High-Resolution Proxy Data*: "Impacts of Proxy Uncertainties on Multiproxy Reconstructions", International Center for Theoretical Physics (ICTP), Trieste, Italy, Jun 9, 2008.
 - Invited lecture, "The Past and Future of Global Warming", Penn State University, Brandywine Campus, Media, PA, Apr 25, 2008.
 - Invited presentation, *Workshop on Reconciling ENSO Chronologies for the Past 500 Years*: "The Importance of Dynamical Responses to Forcing in Understanding Climate Changes Over the Past Millennium", Moorea, French Polynesia, Apr 3, 2008.
 - Invited lecture, "Paleoclimate reconstructions over the past millennium and how can they inform our understanding of climate dynamics", Institut d'Astronomie et de Géophysique, Université Catholique de Louvain, Louvain la Neuve, Belgium, Mar 12, 2008.
 - Invited lecture, "The Importance of Dynamical Responses to Forcing in Understanding Climate Changes Over the Past Millennium", Centre for Global Change Science Seminar Series, University of Toronto, Toronto, Canada, Feb 26, 2008.
 - Invited public lecture, "Global Climate Change: The Predictions, The Likely Impacts, and Possible Solutions", Le Moyne College, NY, Jan 31, 2008.
 - Invited lecture, "The Physics of Climate Change", Department of Physics, Penn State University, PA, Jan 17, 2008.
 - Invited exhibition, "Climate change adaptation in Africa", 3th Conference of the Parties to the UN Framework Convention on Climate Change, Bali, CCLONG project members (M. Mann one of project members), Bali, Indonesia, Dec 3, 2007.
 - Invited public lecture, "Climate Change: Is it for Real and What Does it Mean for You", Penns Valley Conservation Association, Spring Mills, PA, Nov 14, 2007.
 - Invited lecture, "Climate Change What can the Past tell us about the Future?", Department of Geological Sciences, University of North Carolina, Chapel Hill, NC, Nov 9, 2007.
 - Invited public lecture, "Global Climate Change: The impacts, the urgency, and likely consequences to humanity", Annual Carolina Climate Change Seminar Series, Institute for the Environment, University of North Carolina, Chapel Hill, NC, Nov 8, 2007.
 - Invited lecture, "Paleoclimate reconstructions over the past millennium and how they can inform our understanding of climate dynamics", Ocean and Climate Physics Seminar Series, Lamont Doherty Earth Observatory/Columbia Univ., Palisades, NY, Nov 2, 2007.
 - Invited public lecture, *Global Warming and its likely societal impacts*, Environmental Studies Speaker Series, Alfred University, Alfred, NY, Oct 26, 2007.
 - Invited lecture, "The Importance of Dynamical Responses to Forcing in Understanding Climate Changes in Past Centuries", NOAA/NCEP/NWS/CPC, Camp Springs, MD, Oct 12 2007.
 - Invited public lecture, "Global Climate Change: Past and Future", Cornell University, Ithaca, NY, Sep 28, 2007.
 - Invited public lecture, "The Science of Climate Change", "EarthTalks" Seminar Series, Earth and Environmental Systems Institute, Penn State University, University Park, PA, Sep 17, 2007.
 - Invited public lecture, "Global Climate Change: Past and Future", Straub Environmental Lecture Series, Salem, OR, May 31, 2007.
 - Invited lecture, "The Scientific Cause for Climate Change and its Causation", Foster Hewitt lecture, Lehigh University, Lehigh, PA, Apr 6, 2007.
 - Invited lecture, "Modern Climate Trends in the Context of the Late Holocene", University of Southern California, Los Angeles, CA, Mar 26, 2007.
 - Invited public lecture, "The Past and Future of Global Warming", Sierra Club Moshannon Group, State College, PA, Mar 6, 2007.
 - Invited lecture, "Global Climate Change: Past and Future", Environmental Protection Agency (Region III Office), Philadelphia, PA, Feb 23, 2007.
 - Invited public lecture (w/ D. Easterling, L. Thompson, B. Santer), "Multiple Lines of Evidence: The Scientific Case for Global Warming and its Causation", American Meteorological Society's Environmental Science Seminar Series, Washington, DC, Jan 31, 2007.
 - Invited presentation, *CLIVAR Meeting on Multidecadal to Centennial Global Climate Variability*: "The AMO Signal in Proxy and Instrumental Observations", Honolulu, Hawaii, Nov 15, 2006.
 - Invited presentation, *XIII Venezuelan Geophysical Congress*: "Climate Change: Past and Future", Honolulu, Hawaii, Oct 23, 2006.
 - Invited public lecture, "Global Climate Change: Past and Future", Pennsylvania Consortium for Interdisciplinary Environmental Policy, Harrisburg, PA, Oct 5, 2006.
 - Invited lecture, "The Atlantic Multidecadal Oscillation, Climate Change, and Atlantic Hurricanes", Dept. of Geography, Penn State University, University Park, PA, Sep 25, 2006.
 - Invited lecture, "Global Climate Change: Past and Future", 3M Corporation, Saint Paul, MN, Aug 3, 2006.
 - Invited presentation, *HOLIVAR open science meeting*: "Climate over the Past Two Millennia", London, England, Jun 14, 2006.
 - Invited presentation, *Workshop on Past Millennia Climate Variability: Proxy based reconstructions, modeling and methodology Synthesis and Outlook*: "Climate over the Past Millennium", Wengen, Switzerland, Jun 8, 2006.
 - Invited public lecture, "Global Climate Change: Past and Future", UC Santa Cruz, Santa Cruz, CA, May 10, 2006.
 - Invited lecture, "Climate over the Past Millennium", Earth Sciences Department, UC Santa Cruz, Santa Cruz, CA, May 9, 2006.
 - Invited lecture, "Climate over the Past Millennium", UC Irvine, Irvine, CA, May 3, 2006.
 - Invited lecture, "Large-scale Climate Influences on Drought: Past, Present, and Future", Water Resources Engineering group, Penn State University, State College, PA, Apr 21, 2006.
 - Invited public lecture, "Global Climate Change: Past and Future", Margolin lecture in environmental affairs, Middlebury College, Middlebury VT, Mar 7, 2006.
 - Invited lecture, "Climate over the Past Millennium", Middlebury College, Middlebury VT, Mar 6, 2006.
 - Invited presentation, "Climate over the Past 1-2 Millennia", U.S. National Academy of Sciences, Washington DC, Mar 3, 2006.
 - Invited lecture, "Climate over the Past Millennium", Princeton Plasma Physics Laboratory, Princeton, NJ, Feb 20, 2006.
 - Invited public lecture, "Global Climate Change: Past and Future", Le Moyne college, Syracuse, NY, Feb 3, 2006.
 - Invited lecture "Climate over the Past Millennium", Natural Science Seminar Series, Le Moyne college, Syracuse, NY, Feb 3, 2006.
 - Invited lecture, "Detecting Human Induced Climate Change: Insights from the Paleoclimate Record", University of New Mexico, Dept. of Physics and Astronomy, Albuquerque, NM, Oct 3, 2005.
 - Invited presentation, *Past Global Changes ("PAGES") 2nd Open Science Meeting*: "Insights from Comparing Empirically-estimated and Modeled Climate Change in Past Centuries", Beijing, China, Aug 10, 2005.
 - Invited participant, *Past Global Changes ("PAGES") 2nd Open Science Meeting*, Panel Discussion on "Temperature history of the last 2000 years – what do we know?", Beijing, China, Aug 10, 2005.
 - Invited presentation, 9th International Association of Meteorology and Atmospheric Sciences (IAMAS) Scientific Assembly: "Dynamical Mechanisms of Solar Climate Forcing in Past Centuries", Beijing, China, Aug 10, 2005.
 - Invited presentation, 9th International Association of Meteorology and Atmospheric Sciences (IAMAS) Scientific Assembly: "Insights from Comparing Empirically-Estimated and Modeled Climate Change in Past Centuries", Beijing, China, Aug 5, 2005.
 - Invited presentation, *Workshop on Solar Variability and Planetary Climates*: "Comparisons of model simulations and proxy-based climate reconstructions over the past two millennia", International Space Science Institute (ISSI), Bern, Switzerland, Jun 6, 2005.
 - Invited participant, *Workshop on Science Communications and the Media*, Lamont Doherty Earth Observatory/Columbia University, Palisades, NY, Jun 1-3, 2005.
 - Invited presentation, *Symposium on Energy for the 21st Century*: "Climate Change and Global Warming", Amherst, MA, Apr 9, 2005.
 - Invited lecture, Blue Ridge Community College, Harrisonburg, VA, Apr 5, 2005.
 - Invited lecture, Pennsylvania State University, Dept. of Geosciences, State College, PA, Mar 29, 2005.
 - Invited lecture, Spring meeting of the American Statistical Association, Philadelphia Chapter (ASAP), Philadelphia, PA, Mar 24, 2005.
 - Invited lecture, Purdue University, Dept. of Earth & Atmospheric Sciences, West Lafayette, IN, Mar 3, 2005.

- Invited presentation, *Symposium on Whole Earth Systems* (honoring Stephen Schneider): "Climate over the Past Millennium Or So", Palo Alto, CA, Feb 10, 2005.
- Invited presentation, *Meeting on Decadal Variability in the Sun and Climate*, Solar Radiation and Climate Experiment (SORCE) annual meeting, Oct 28, 2004.
- Invited presentation, *Workshop on Historical Reconstruction of Climate Variability in Mediterranean Regions*, Bologna, Italy, Oct 6, 2004.
- Invited lecture, University of Arizona, Atmospheric Sciences Department, Tucson, AZ, Jul 1, 2004.
- Invited presentation, *First International CLIVAR Science Conference*: "Comparisons of Observed Paleoclimate and Model-Based Studies of Climate Changes Over the Past Two Millennia" (co-author: K. Briffa), Baltimore, MD, Jun 23, 2004.
- Invited lecture, Ohio State University, Geology Department, Columbus, OH, May 6, 2004.
- Invited lecture, Ohio State University, Physics Department, Columbus, OH, May 4, 2004.
- Invited presentation, *EGU Spring meeting*: "Volcanic and Solar Forcing of El Niño Over the Past 1000 Years" (co-authors: M.A. Cane, S. E. Zebiak, A. Clement), Nice, France, Apr 27, 2004.
- Invited lecture, University of North Carolina, Carolina Environmental Program (CEP), Chapel Hill, NC, Apr 16, 2004.
- Invited presentation, *Meeting on Tree Rings and Climate*, Tucson, AZ, Apr 6, 2004.
- Invited presentation, *GSA Northeastern Section meeting*, McLean, VA, Mar 27, 2004.
- Invited lecture, Pennsylvania State University, Dept. of Meteorology, State College, PA, Mar 4, 2004.
- Invited presentation, *NASA-CLIVAR IPRC workshop on Decadal Climate Variability*, Kona, Hawaii, Feb 23, 2004.
- Invited presentation (co-authors B. Adams, C. Ammann, R. Miller, S. Rutherford, G. Schmidt, D. Shindell), *AGU Fall meeting*: "Spatially- and seasonally-specific responses to forcing as detected in paleoclimate reconstructions of past centuries", San Francisco, CA, Dec 12, 2003.
- Invited presentation, 30th session of the *International Seminars on Planetary Emergencies*, World Federation of Scientists, Erice, Italy, Aug 20, 2003.
- Invited presentation, *AGU-EGS Joint Spring meeting*: "Ground vs. Surface Temperature Trends: Implications for Borehole Surface Temperature Reconstructions" (co-author: G. Schmidt), Nice, France, Apr 10, 2003.
- "Vedlesen" distinguished lecturer, Graduate School of Oceanography, University of Rhode Island, Narragansett, Rhode Island, Mar 5, 2003.
- Invited presentation (co-authors G. Schmidt, D. Shindell), *AGU Fall meeting*: "Climate Changes during the Past Millennium", San Francisco, CA, Dec 8, 2002.
- Invited lecture, Geophysical Fluid Dynamics Laboratory, Princeton, NJ, Oct 17, 2002.
- Invited lecture, Goddard Institute for Space Studies, New York, NY, Oct 10, 2002.
- Invited presentation, Chapman conference on *Volcanism and the Earth's Atmosphere*, Santorini Greece, Jun 20, 2002.
- Invited lecture, University of Copenhagen, Copenhagen, Denmark, Jun 11, 2002.
- Invited presentation, *EGS Spring meeting*: "Climate Change and Forcing over the Past 500 years" (co-authors: S. Rutherford, R. Bradley, M. Hughes), Nice, France, Apr 23, 2002.
- Invited participant, Waxter Environmental Forum, Sweet Briar College, Mar 14, 2002.
- Invited lecture, College of Marine Science, University of South Florida, Mar 8, 2002.
- Invited lecture, Center for Coastal Physical Oceanography (CCPO), Old Dominion University, Feb 18, 2002.
- Invited lecture, INSTAAR, University of Colorado, Jan 28, 2002.
- Invited lecture, Department of Geological Sciences, University of Colorado, Jan 25, 2002.
- Invited lecture, Department of Geology, University of North Carolina, Jan 18, 2002.
- Invited presentation, *AGU Fall meeting*: "Climate Reconstruction using Pseudoproxies", San Francisco, CA, December 11, 2001.
- Invited lecture, Department of Earth & Ocean Sciences, Duke University, Nov 29, 2001.
- Session introduction, Invited session on "Climate Change Detection/Attribution", National Academy of Sciences *Frontiers of Science* annual symposium, Irvine, California, Nov 9, 2001.
- Invited lecture, *Richard Foster Flint Symposium Honoring the Memory of Barry Saltzman*, Nov 3, 2001.
- Invited lecture, DCESS, University of Copenhagen, Copenhagen, Denmark, Aug 15, 2001.
- Invited presentation, *Global Change Open Science Conference*: "Variability in El Niño and the Global ENSO Phenomenon in Past Centuries", Amsterdam, Netherlands, Jul 11, 2001.
- Invited lecture, Courant Institute, New York University, New York, NY, Apr 4, 2001.
- Invited presentation, *EGS Spring meeting*: "Comparison of Large-Scale Proxy-Based Temperature Reconstructions over the Past Few Centuries" (co-authors: S. Rutherford, T. Osborn), Nice, France, March 29, 2001.
- Invited lecture, Turner Lecture Series, Department of Geological Sciences, University of Michigan, Ann Arbor, MI, Mar 16, 2001.
- Invited presentation, *NASA-CLIVAR IPRC workshop on Decadal Climate Variability*, Honolulu, Hawaii, Jan 8, 2001.
- Invited presentation, *AGU Fall meeting*: "Use of Proxy Climate Data in Climate Change Detection", San Francisco, CA, Dec 16, 2000.
- Invited presentation, *CLIVAR Decadal Climate Predictability Workshop*, La Jolla, California, Oct 4, 2000.
- Invited presentation, 5th EPA NHEERL symposium on *Indicators in Health and Ecological Risk Assessment*, Jun 7, 2000.
- Invited presentation, AMQUA annual meeting, Fayetteville Arkansas, May 22, 2000.
- Invited presentation, *EGS Spring meeting*: "Seasonal Proxy-Reconstructed Surface Temperature Patterns in Past Centuries", Nice, France, Apr 22, 2000.
- Invited public lecture, Smithsonian Environmental Research Center (SERC), Edgewater Maryland, Mar 15, 2000.
- Invited participant and speaker, workshop on *El Niño: Past Present and Future*, Seabrook Island South Carolina, Feb 28-Mar 2, 2000.
- Invited guest introductions, *US Global Change Research Program Seminar Series*, Dirksen Senate Office Building, Capitol Hill, Washington DC, Nov 23, 1999.
- Invited participant and speaker, *PAGES-CLIVAR workshop on Climate of the Last Millennium*, Venice Italy, Nov 8 - 12, 1999.
- Invited lecture, Geophysical Fluid Dynamics Laboratory, Princeton, NJ, Oct 21, 1999.
- Invited lecture, NASA Goddard Institute for Space Studies, New York, NY, Oct 15, 1999.
- Invited lecture, Colloquium on Regional Modeling and Detection, International Center for Theoretical Physics (ICTP), Trieste, Italy, Jun 9, 1999.
- Invited presentation, *US Global Change Research Program Seminar Series*, Dirksen Senate Office Building, Capitol Hill, Washington DC, May 17, 1999.
- Invited lecture, Physical Oceanography Seminar Series, Woods Hole Oceanographic Institute, Woods Hole, MA, Mar 2, 1999.
- Invited lecture, Department of Environmental Sciences, University of Virginia, Charlottesville, VA, Feb 18, 1999.
- Invited lecture, School of Marine and Atmospheric Science, University of Miami, Coral Gables, FL, Nov 15, 1998.
- Invited lecture, Department of Mathematics & Statistics, University of Massachusetts, Amherst, MA, Nov 2, 1998.
- Invited presentation, *NASA workshop on Decadal Climate Variability*, Williamsburg, VA, Sep 22-25, 1998.
- Invited presentation, *US Global Change Research Program Seminar Series*, Dirksen Senate Office Building, Capitol Hill, Washington DC, Jul 20, 1998.
- Invited presentation, *AGU Spring meeting*: "Low-frequency Variations in Midwestern U.S. Precipitation: Diagnosing ENSO and Anthropogenic effects", Boston, MA, May 1998.
- Invited lecture, NOAA-CDC/ERL/CIRES, Boulder, Colorado, May 13, 1998.
- Invited lecture, Graduate School of Oceanography, University of Rhode Island, Narragansett, Rhode Island, Mar 6, 1998.
- Invited lecture, Oceanography Department, Texas A&M University, College Station, Texas, Dec 4, 1997.
- Invited lecture, Geology Department, West Virginia University, Morgantown, West Virginia, Nov 14, 1997.
- Invited talk, conference on *Transformations of Middle Eastern Natural Environments: Legacies and Lessons*, Council on Middle East Studies, Yale Center for International and Area Studies, Yale University, New Haven, Oct 30-Nov 1, 1997.
- Invited lecture, Hadley Centre of the United Kingdom Meteorological office, Bracknell, UK, Oct 14, 1997.
- Invited presentation, *The Cross-Validation of Proxy Climate Data and the Instrumental Record*, Joint Institute for the Study of Atmosphere and Ocean, University of Washington, Seattle, Jun 23-25, 1997.
- Invited lecture, Geophysical Fluid Dynamics Laboratory, Princeton University, Princeton, New Jersey, Mar 4, 1997.
- Invited lecture, Department of Atmospheric Sciences, University of California Los Angeles, Feb 14, 1997.
- Invited presentation, *SST reconstruction from Proxy data and Optimal Network Design Strategy For Corals and other Annual Records from Tropical Systems (ARTS)*, Lamont Doherty Earth Observatory, Columbia University, Jan 15-16, 1997.
- Invited lecture, Lamont Doherty Earth Observatory, Columbia University, Dec 4, 1996.
- Invited lecture, Department of Physics, University of Bern, Bern Switzerland, Oct 26, 1996.
- Invited presentation, *Links between Variations in Solar Activity, Atmospheric Conductivity, and Clouds: An Informal Workshop*, Los Alamos National Laboratory, Los Alamos, New Mexico, Jun 20-21, 1996.
- Invited participant, *Application of Statistics to Modeling the Earth's Climate System*, National Center for Atmospheric Research, Boulder, Colorado, Jul 6-19, 1994.
- Invited lecture, United States Geological Survey, *USGS Global Change seminar series*, Reston Virginia, Apr 12, 1993.
- Invited lecture, Geology Dept., Brown University, Providence, Rhode Island, Mar 10, 1993.
- Invited lecture, Dept. of Chemistry, University of Utah, Jul 14, 1989.

Abstracts and Talks

- Kemp, A.C., Horton, B.P., Donnelly, J.P., Mann, M.E., Vermeer, M., Rahmstorf, S., Climate related sea-level variations over the past two millennia, XVIII INQUA Congress, Bern, Switzerland, July, 2011.
- Goosse, H., Crespin, E., Dubinkina, S., Loutre, M.-F., Mann, M.E., Renssen, H., Sallaz-Damaz, Y., The Medieval Climate Anomaly in simulations with data assimilation, XVIII INQUA Congress, Bern, Switzerland, July, 2011.
- Goosse, H., Guiot, J., Mann, M.E., Dubinkina, S., Sallaz-Damaz, Y., The medieval climate anomaly in Europe: comparison of the summer and annual mean signals in two reconstructions and in simulations with data assimilation, XVIII INQUA Congress, Bern, Switzerland, July, 2011.
- Crespin, E., Goosse, H., Fichefet, T., Mairesse, A., Sallaz-Damaz, Y., Dubinkina, S., Mann, M.E., Arctic climate over the past 1500 years: response to external forcing and internal variability, XVIII INQUA Congress, Bern, Switzerland, July, 2011.
- Kozar, M.E., Mann, M.E., Emanuel, K.A., Analysis of Atlantic Tropical Cyclone Counts Over the Past Millennium, 3rd International Summit on Hurricanes and Climate Change, Rhodes, Greece, June 2011.
- Mann, M.E., Kozar, M.E., Emanuel, K.A., Relationships Between Basin-Wide and Landfalling Atlantic Tropical Cyclones: Analysis of Long-Term Simulation Results, 3rd International Summit on Hurricanes and Climate Change, Rhodes, Greece, June 2011.
- Goosse, H., Crespin, E., Dubinkina, S., Loutre, M.-F., Mann, M.E., Renssen, H., Sallaz-Damaz, Y., Shindell, D., The Medieval Climate Anomaly: mechanisms beyond a direct radiative forcing, EGU Spring meeting, Vienna, Austria, April, 2011.
- Kozar, M.E., Mann, M.E., Camargo, S.J., Kossin, J.P., Statistical Modeling of Atlantic Tropical Cyclone Counts, 91st Annual Meeting, American Meteorological Society, January 2011
- Singh, R., Wagener, T., Werkhoven, K.V., Mann, M.E., Crane, R., Ning, L., Trading Space for Time: A non-stationary approach to probabilistic flow predictions in a changing climate, AGU Fall meeting, San Francisco, CA, December, 2010
- Striver, R.L., Goes, M.P., Mann, M.E., Huber, M., Keller, K., Recent Advances in Understanding Tropical Cyclone-Climate Interactions Using Climate Models of Varying Complexity, AGU Fall meeting, San Francisco, CA, December, 2010
- Reisman, J.P., Mann, M.E., Climate Science Communications - Video Visualization Techniques, AGU Fall meeting, San Francisco, CA, December, 2010
- Mann, M.E., Of Random Walks and Global Temperature, "Frank Talks" series, Department of Meteorology, Penn State University, September 2010
- Striver, R.L., Mann, M.E., Huber, M.P., Keller, K., New Insights into Tropical Cyclone-Climate Interactions using Climate Models of Varying Complexity, NOAA Climate & Global Change Postdoctoral Fellowship Program Summer Institute, Steamboat Springs, CO, July, 2009
- Fan, F., Mann, M.E., Lee, S., Observed and Modeled Changes in the South Asian Summer Monsoon over the Historical Period, AGU Fall meeting, San Francisco, CA, December, 2009
- Striver, R.L., Mann, M.E., Goes, M.P., Keller, K., Climate Response to Tropical Cyclone-Induced Ocean Mixing in an Earth System Model of Intermediate Complexity, AGU Fall meeting, San Francisco, CA, December, 2009
- Emile-Geay, J., Cobb, K.M., Mann, M.E., Rutherford, S.D., Wittenberg, A.T., Low-Frequency Tropical Pacific Sea-Surface Temperature over the Past Millennium: Reconstruction and Error Estimates, AGU Fall meeting, San Francisco, CA, December, 2009
- Mann, M.E., Woodruff, J.D., Donnelly, J., Zhang, Z., El Nino, tropical Atlantic warmth, and Atlantic hurricanes during the past 1500 years, 2nd International Summit on Hurricanes and Climate Change, Corfu, Greece, June 2009.
- Goosse, H., Crespin, E., Mann, M.E., Renssen, H., Timmermann, A., A dynamically consistent reconstruction of surface temperature changes during the last 600 years based on climate model simulations using data assimilation, EGU Spring meeting, Vienna, Austria, April 2009 (solicited).
- Crespin, E., Goosse, H., Fichefet, T., Mann, M.E., Did fluctuations of the thermohaline circulation in the North Atlantic play a role during Arctic warm episodes of the past millennium? EGU Spring meeting, Vienna, Austria, April 2009.
- Mann, M.E., Bradley, R.S., Crespin, E., Goosse, H., Hughes, M.K., Rutherford, S., Shindell, D., Zhang, Z., Towards Understanding Patterns of Climate Change in Past Centuries, EGU Spring meeting, Vienna, Austria, April 2009.
- Crespin, E., Goosse, H., Fichefet, T., Mann, M.E., Potential causes of 15th century Arctic warming using coupled model simulations with data assimilation, EGU Spring meeting, Vienna, Austria, April 2009.
- Katz, B.G., Najjar, R.G., Mann, M.E., Potential impact of changing sea level and streamflow on salinity of the upper Delaware Bay, 3rd Delaware Estuary Science and Environmental Summit, Cape May, NJ, January 2009.
- Sabbatelli, T., Mann, M.E., S.K. Miller, Semi-Empirical Projections of Future Atlantic Tropical Cyclone Activity, 8th Annual AMS Student Conference, Phoenix, AZ, January 2009
- Crespin, E., Goosse, H., Fichefet, T., Mann, M.E., Causes of 15th century warming event in the Arctic in a coupled climate model including data assimilation, AGU Fall meeting, San Francisco, CA, December, 2008
- Emile-Geay, J., Cobb, K.M., Mann, M.E., Rutherford, S., Low-Frequency Tropical Pacific Sea-Surface Temperature over the Past Millennium: Reconstruction and Error Estimates, AGU Fall meeting, San Francisco, CA, December, 2008
- Sabbatelli, T.A., Mann, M.E., Miller, S.K., Evans, J.L., Semi-Empirical Projections of Future Atlantic Tropical Cyclone Activity, AGU Fall meeting, San Francisco, CA, December, 2008
- Crespin, E., Goosse, H., Fichefet, T., Mann, M.E., Simulating the climate of the Arctic during the last millennium in a coupled climate model including data assimilation, EGU General Assembly, Vienna, Austria, April 2008
- Emile-Geay, J.E., Cobb, K.M., Mann, M.E., Experimental reconstructions of tropical Pacific sea-surface temperature over the past millennium, EGU General Assembly, Vienna, Austria, April 2008
- Steig, E.J., Schneider, D.P., Rutherford, S.D., Mann, M.E., Comiso, J.C., Shindell, D.T., Significant warming of West Antarctica in the last 50 years, EGU General Assembly, Vienna, Austria, April 2008
- Katz, B.G., Najjar, R.G., Cronin, T.M., Mann, M.E., Rayburn, J.A., Duration and magnitude of freshwater floods during the 13 KA and 11.4 KA BP events in the Paleo-Champlain Sea, GSA Northeastern Section, Buffalo, NY, March 2008
- Najjar, R., Graham, S., Hilton, T., Katz, B., Li, M., Mann, M., Patterson, L., Zhong, L., Climate Forcing of Mid-Atlantic Estuaries in the 21st Century, Ocean Sciences Meeting, Orlando, Florida, March 2008
- Crespin, E., Goosse, H., Fichefet, T., Mann, M.E., Simulating the climate of the Arctic during the last millennium in a coupled climate model including data assimilation, 38th International Arctic Workshop, Boulder, CO, March 2008
- Mann, M.E., Fan, F., Zhang, Z., Ammann, C., Shindell, D., Schmidt, G., The Importance of Dynamical Responses to Forcing in Understanding Climate Changes Over the Past Millennium, AGU Fall meeting, San Francisco, CA, December, 2007
- Fan, F., Mann, M.E., Ammann, C., Changes in the Asian Summer Monsoon over the Past Millennium, AGU Fall meeting, San Francisco, CA, December, 2007
- Goosse, H., Mann, M.E., Renssen, H., Timmerman, A., Data assimilation over the last millennium using a large ensemble of simulations, AGU Fall meeting, San Francisco, CA, December, 2007
- Najjar, R., T. Hilton, B. Katz, L. Zhong, M. Li and M. Mann, Is there a signal of sea-level rise in the salinity of mid-Atlantic estuaries. Presentation at the annual meeting of the Estuarine Research Federation, Providence, RI, November 8, 2007.
- Fan, F., Mann, M.E., Ammann, C., Natural Forcing of the Asian Summer Monsoon Over the Past Millennium, 3rd Alexander von Humboldt International Conference on The East Asian Monsoon, past, present, Beijing China, August, 2007
- Goosse, H., Mann, M.E., Renssen, H., Timmerman, A., Reconstructing temperature changes over the past millennium using both model results and observations, Second International Conference on Earth System Modelling, Hamburg Germany, August, 2007
- Mann, M.E., Zhang, Z., Rutherford, S., Bradley, R., Hughes, M., Proxy-based Reconstructions of Past Hemispheric and Global Mean Surface Temperature Variations, IUGG 24th General assembly, Perugia, Italy, July, 2007
- Mann, M.E., Zhang, Z., Rutherford, S., Bradley, R., Hughes, M., Proxy-based Reconstructions of Past Hemispheric and Global Mean Surface Temperature, AGU Fall meeting, San Francisco, CA, December, 2006
- Rutherford, S., Mann, M.E., Wahl, E.R., Ammann, C., Test of Climate Field Reconstruction Performance Using Pseudoproxies, AGU Fall meeting, San Francisco, CA, December, 2006
- Emanuel, K., Mann, M.E., Hurricanes and the Atlantic Multidecadal Oscillation, AGU Fall meeting, San Francisco, CA, December, 2006
- Goosse, H., Renssen, H., Timmermann, A., Bradley, R.S., Mann, M.E., Using paleoclimate proxy-data to select optimal realisations in an ensemble of simulations of the climate of the past millennium, EGU Spring meeting, Vienna, Austria, April 2006
- Mann, M.E., Global Warming, the AMO, and North Atlantic Tropical Cyclones, ESSC Brownbag Seminar, Penn State University, University Park, PA, March, 2006.
- Knight, J., Allan, R., Folland, C., Vellinga, M., Mann, M., A Signature of Persistent Natural Thermohaline Circulation Cycles in Observed Climate, AGU Fall meeting, San Francisco, CA, December, 2005 (solicited).
- Cook, B.I., Epstein, H.E., Smith, T.M., Mann, M.E., Arctic Oscillation Induced Warming and Terrestrial Responses, AGU Fall meeting, San Francisco, CA, December, 2005.
- Emile-Geay, J.B., Cane, M.A., Mann, M.E., Seager, R., ENSO response to radiative forcing over the Holocene: a model perspective, AGU Fall meeting, San Francisco, CA, December, 2005.

- Knight, J., Scaife, A., Allan, R., Folland, C., Vellinga, M., Mann, M., The Atlantic Multidecadal Oscillation: a signature of thermohaline circulation cycles in observed climate, IAMAS 9th Scientific Assembly, Beijing, China, August 2005.
- Goosse, H., Renssen, H., Timmermann, A., Bradley, R., Mann, M., Using paleoclimate proxy-data to select an optimal realisation in an ensemble of simulations of the climate of the past millennium, EGU Spring meeting, Vienna, Austria, April 2005 (solicited).
- Graham, N., Ammann, C., Tomas, R., Hoerling, M., Xu, T., Hughes, M., Mann, M., Understanding late Holocene climate transitions in the Pacific: Results from proxy-guided AGCM experiments, EGU Spring meeting, Vienna, Austria, April 2005 (solicited).
- Cook, E., Herweijer, C., Seager, R., Mann, M., Long-term drought variability over North America and its connection to global and tropical Pacific SST forcing, EGU Spring meeting, Vienna, Austria, April 2005.
- Emile-Geay, J., Cane, M., Mann, M., Bond, G., Radiative forcing of El Niño-Southern Oscillation over the Holocene: a model perspective, EGU Spring meeting, Vienna, Austria, April 2005.
- Cook, E., Cane, M., Seager, R., Mann, M., Tropical Pacific Links to Long-Term Aridity Changes in the Western United States, Chapman conference on Tropical-Extratropical Teleconnections, Honolulu, HI, February 2005 (solicited).
- M. Cane, Emile-Geay, J., Seager, R., Clement, A., Mann, M., Solar Influence on ENSO and the Tropics?, AGU Fall meeting, San Francisco, CA, December, 2004 (solicited).
- Cook, B.J., Smith, T.M., Mann, M.E., The North Atlantic Oscillation and Regional Phenology Prediction Over Europe, AGU Fall meeting, San Francisco, CA, December, 2004.
- Steig, E.J., Schneider, D.P., Mann, M.E., Rutherford, S.J., van Ommen, T., Winebrenner, D.P., Antarctic Temperatures since 1856, Western Antarctic Ice Shelf meeting, September 2004.
- Cronin, T.M., Willard, D.A., Thunell, Dwyer, G.S., Mann, M.E., Seager, C., Climate Variability from Estuarine Sediments: A Case Study of Chesapeake Bay, First International CLIVAR Science Conference, June 2004.
- Jones, P.D., Mann, M.E., "Comparisons of millennial reconstructions of Northern Hemisphere (NH) temperatures from proxy data with coupled-GCM integrations", EGU Spring meeting, Nice, France, April 2004.
- Luterbacher, J., Xoplaki, E., Fischer, E., Pauling, A., Gonzalez-Rouco, F.J., Garcia Herrera, R., Guiot, J., Zorita, E., Jacobeit, J., Mariotti, A., Rimbau, N., Felis, T., Rodrigo, F., Barriendos, M., Mann, M.E., Touchan, R., Past Mediterranean climate variability - present knowledge and Scientific Challenges For Future Research, EGU Spring meeting, Nice, France, April 2004.
- Seager, C.P., Cronin, T.M., Thunell, R., Vann, C., Dwyer, G., Seal, R. II, Mann, M.E., Eastern U.S. Holocene Climate Variability from Chesapeake Bay Sediments, Geological Society of America Annual Northeastern Section meeting, March 2004.
- Hughes, M.K., Ni, F., Mann, M.E., Park, J., Global Multidecadal to Century-Scale Climate Oscillations During the Last 1000 Years, AGU Fall meeting, San Francisco, CA, December, 2003.
- Shindell, D.T., Schmidt, G.A., Mann, M.E., Miller, R.L., Northern Hemisphere Regional Climate Change during the Last Millennium, AGU Fall meeting, San Francisco, CA, December, 2003.
- Schmidt, G.A., Shindell, D.T., Miller, R.L., and Mann, M.E., External forcing of climate change during the Holocene, IMAGES Holocene Working Group Meeting, Hafslø, Norway, August 2003.
- Mann, M.E., Rutherford, S., Jones, P.D., Schmidt, G.A., Shindell, D., Climate changes during the past millennium, IUGG Meeting, Sapporo, Japan, July, 2003.
- Knight, R.G., Folland, C.K., Vellinga, M., Mann, M.E., The Atlantic Multidecadal Oscillation and the Thermohaline Circulation: A Global-Scale Ocean-Atmosphere Mode Simulated in a 1400 Year Coupled Model Calculation, IUGG Meeting, Sapporo, Japan, July, 2003.
- Wiberg, P., Cleary, P., Mann, M.E., Coupling wave and meteorological observations with bottom-boundary-layer models to investigate spatial and temporal variability in continental-shelf sediment transport, International Geological Congress, Florence, Italy, June, 2003.
- Knight, R.G., Folland, C.K., Vellinga, M., Mann, M.E., The Atlantic Multidecadal Oscillation and the Thermohaline Circulation: A Global-Scale Ocean-Atmosphere Mode Simulated in a 1400 Year Coupled Model Calculation, Conference of the Royal Meteorological Society, June, 2003.
- D'Arrigo, R.D., Cook, E.R., Mann, M.E., Jacoby, G.C., Tree-ring Reconstructions of Arctic Oscillation Indices Since AD 1650, ARCS 15th Annual Meeting And Arctic Forum, Arlington, VA, April 2003.
- Shindell, D.T., Schmidt, G.A., Miller, R., Mann, M.E., "Volcanic and Solar Forcing of Global and Regional Climate During the Preindustrial Era", AGU/EGS Joint Spring meeting, Nice, France, April 2003.
- Zhang, Z., Mann, M.E., Cook, E.R., A Revised Set of Dendroclimatic Reconstructions of Summer Drought over the Conterminous U.S., AGU Fall meeting, San Francisco, CA, December, 2002.
- Rutherford, S., Mann, M.E., Bradley, R., Briffa, K., Hughes, M., Jones, P., Osborn, T., Proxy-Based Reconstruction of Surface Temperature Variations in Past Centuries, AGU Fall meeting, San Francisco, CA, December, 2002.
- Cook, B.J., Mann, M.E., Smith, T., A Statistical Resampling Technique for Conditioning Simulated Daily European Surface Temperatures on the North Atlantic Oscillation Index, AGU Fall meeting, San Francisco, CA, December, 2002.
- Adams, B., Ammann, C.M., Mann, M.E., Using Paleoclimatic Reconstructions of ENSO Variability During the Past Few Centuries to Re-Examine the 'Volcano-ENSO' Hypothesis, AGU Fall meeting, San Francisco, CA, December, 2002.
- Rutherford, S., Mann, M.E., Proxy-Based Reconstructions of Surface Temperature Patterns During the Maunder Minimum, AGU Spring meeting, Washington, DC, May 2002.
- Shindell, D.T., Schmidt, G.A., Mann, M.E., Rind, D., Waple, A., Miller, R., Solar and Volcanic Forcing of Climate Change during the Maunder Minimum, AGU Spring meeting, Washington, DC, May 2002.
- Shindell, D., Schmidt, G., Mann, M., Rind, D., Waple, A., Long-term Solar Forcing of the Arctic Oscillation/North Atlantic Oscillation, AGU Fall meeting, San Francisco, CA, December, 2001.
- Druckenbrod, D.L., Mann, M.E., Stahle, D.W., Cleaveland, M.K., Therrell, M.D., Shugard, H.H., James Madison and a Shift in Precipitation Seasonality, AGU Fall meeting, San Francisco, CA, December, 2001.
- Cook, E.R., D'Arrigo, R.D., Mann, M.E., A well-verified multiproxy reconstruction of the winter North Atlantic Oscillation index Since AD 1400, U.S. CLIVAR Atlantic meeting, Boulder, CO, June 14, 2001.
- Brigham-Grette, J., Rittenour, T.M., Mann, M.E., Drainage history of glacial Lake Hitchcock and Paleoclimate Implications of Late Quaternary Sediments and Terraces in the Central Connecticut Valley, New England, GSA Northeastern Section, 36th Annual Meeting, Burlington, VT, March 12, 2001.
- Rutherford, C.M., Mann, M.E., Schneider, T., Delworth, T., Stouffer, R., Climate Field Reconstruction Under Stationary and Non-Stationary Forcing, AGU Fall meeting, San Francisco, CA, December, 2000.
- Rittenour, T.M., Brigham-Grette, J., Mann, M.E., El Niño-like Climate Teleconnections in New England During the Late Pleistocene: Insights from a 4000-year Glacial Varve Chronology, AGU Fall meeting, San Francisco, CA, December, 1999.
- Mann, M.E., Variability in El Niño And the Global ENSO Phenomenon in Past Centuries, AGU Fall meeting, San Francisco, CA, December, 1999.
- Ammann, C.M., Mann, M.E., Bradley, R.S., Explosive Volcanism and ENSO: Search for a Relationship in a Multi-century Global Climate Reconstruction, AGU Fall meeting, San Francisco, CA, December, 1999.
- Waple, A.M., Mann, M.E., Bradley, R.S., Proxy and model-based analysis of patterns of temperature associated with solar irradiance over the last several centuries, IUGG annual meeting, Birmingham, UK, July, 1999.
- D'Arrigo, R., Cook, E., Cullen, H., Mann, M.E., Reconstructions of North Atlantic Oscillation Indices, IUGG annual meeting, Birmingham, UK, July, 1999.
- Folland, C.K., Allan, R.J., Mann, M.E., Power, S.B., Patterns of large-scale climatic variability in the instrumental era, IUGG annual meeting, Birmingham, UK, July, 1999.
- Mann, M.E., Northern Hemisphere temperatures during the past millennium, *Annales Geophysicae, Supplement II*, EGS, 17, Den Haag, Netherlands, April 1999.
- Waple, A.M., Mann, M.E., Bradley, R.S., Proxy and Model-Based Analysis of Patterns of Temperature Associated with Solar Irradiance From 1650 to 1850, AGU Fall meeting, San Francisco, CA, December, 1998.
- Lall, U., Rajagopalan, B., Mann, M., Cook, E., Explaining Upper Mississippi River Droughts and Wet Spells in Terms of Hemispheric Changes in Atmospheric Circulation, *GCIP* conference, St Louis, Mississippi, June, 1998.
- Jain, S., Lall, U., Mann, M., Rajagopalan, B., Interannual to Secular Trends in Midwestern Precipitation: Insights on Greenhouse Gas and ENSO Forcing from a Coupled Ocean-Atmosphere Model, *GCIP* conference, St Louis, Mississippi, June, 1998.
- Jain, S., Lall, U., Mann, M.E., Rajagopalan, B., Changes in the Midwestern U.S. Precipitation: Observations and Modeled Greenhouse Warming Scenarios, *7th International Meeting on Statistical Climatology*, Whistler, BC, May, 1998.
- Park, J., Mann, M.E., ENSO Episodes and Shifts in Global Temperature: A Wavelet Correlation Approach, AGU Fall meeting, San Francisco, CA, December 1997.
- Mann, M.E., Bradley, R.S., Hughes, M.K., Northern Hemisphere Temperature During the Past Half-Millennium: Implications for External Forcing and Natural Variability of the Climate, AGU Fall meeting, San Francisco, CA, December, 1997.
- Mann, M.E., Multi-Proxy based reconstructions of large-scale surface temperature patterns during the past several centuries, AGU Spring meeting, Baltimore MD, May 1997.
- Jain, S., Lall, U., Mann, M.E., Trends in N. Hemisphere Surface Temperature Gradients (Equator-to-Pole and Land-Ocean Contrast): Volcanic Effects and Secular Variations, AGU Fall meeting, San Francisco, CA, December 1996.

- Mann, M.E., A comparison of Observed and Modeled Climate Variability on Interdecadal and Century Timescales, AGU Fall meeting, San Francisco, CA December 1996.
- Mann, M.E., Bradley, R.S., The detection of spatiotemporal signals in long-term proxy climate data: prospects for improved climate model validation, *Workshop on High Resolution Climate Modeling*, Wengen, Switzerland, September 23-26, 1996.
- Jain, S., Lall, U., Mann, M.E., Trends in century long records of N. hemisphere equator-to-pole temperature gradient and land-ocean temperature contrast, *GEWEX Second International Conference on Global Energy and Water Cycle*, Washington, D.C., June 1996.
- Mann, M.E., Spatiotemporal Modes of Low-Frequency Climatic Variability: Observation vs. Simplified Coupled Ocean-Atmosphere Model Simulations, AGU Spring meeting, May, 1996.
- Lall, U., Rajagopalan, B., Moon, Y.I., Mann, M.E., Forecasting nonlinear time series: locally weighted polynomials with local parameter choice and local error estimate, *Annales Geophysicae, Supplement II*, EGS, 14, Hamburg, Germany, April 1996.
- Mann, M.E., Rajagopalan, B., Moon, Y.I., Lall, U., Forecasting multivariate climate timeseries: adaptive, space-time filtering and nonlinear prediction, *Annales Geophysicae, Supplement II*, EGS, 14, Hamburg, Germany, April 1996.
- Mann, M.E., Park, J., Joint spatio-temporal modes of surface temperature and sea level pressure variability in the northern hemisphere during the last century, IUGG meeting, Boulder, CO, July 1995.
- Mann, M.E., Bradley, R., Spatio-temporal patterns of interdecadal and century-scale climate oscillations during the last half millenium, IUGG meeting, Boulder, CO, July 1995.
- Mann, M.E., Lees, J., Signal detection in climate time series: robust red-noise confidence level determination in multitaper spectral analysis, AGU Spring meeting, Baltimore MD, May 1995.
- Lall, U., Saltzman, B., Mann, M.E., How does the Great Salt Lake "see" low frequency climate signals? *Annales Geophysicae, Supplement II*, EGS, 13, 1995.
- Mann, M.E., Lall, U., Extremes of the Great Salt Lake and quasiperiodic modes of climate variability, *Annales Geophysicae, Supplement II*, EGS, 13, 1995.
- Park, J., Mann, M.E., Lilly, J., Spatial Patterns of Historical Temperature Variability: Global Correlations using Spectral and Wavelet Techniques, *AAAS meeting*, Atlanta, GA, February, 1995.
- Koch, D., Mann, M.E., Spatial and temporal variability of ⁷Be surface concentration, AGU Fall meeting, San Francisco, CA, December 1994.
- Bradley, R., Mann, M.E., Park, J., A spatiotemporal analysis of ENSO variability based on globally distributed instrumental and proxy temperature data, AGU Fall meeting, San Francisco, CA, December, 1994.
- Mann, M.E., Park, J., Bradley, R., Global modes of decadal-to-century scale climate variability: the application of evolutive SVD spectral analysis to globally distributed high resolution temperature proxy records, AGU Fall meeting, San Francisco, CA, December, 1994.
- Mann, M.E., Lall, U., Low frequency climate variability and the Great Salt Lake, *Annual meeting of the Geological Society of America*, Abstracts with programs, Vol. 26, No. 7, p. 229, Seattle, WA, October 1994.
- Lall, U., Mann, M.E., The Ups and Downs of the Great Salt Lake: Relation to Long term climatic variability, *Meeting of the Utah Academy of Arts and Sciences*, Salt Lake City, UT, 1994.
- Lall, U., Mann, M.E., Low frequency climate variability: Inferences from the Great Salt Lake, AGU Fall Meeting, San Francisco, CA, December, 1993.
- Marshall, S., Mann, M.E., Oglesby, R.J., Saltzman, Barry, A comparison of the CCM1-simulated climates for pre-industrial and present-day CO2 levels, AGU Fall meeting, San Francisco, CA, December, 1993.
- Mann, M.E., Park, J., Spatial correlation of interdecadal temperature variations, AGU Fall meeting, San Francisco, CA, December 1992.
- Wille, L.T., Mann, M.E., Burmester, C.P., and de Fontaine, D., Oxygen Ordering in YBa₂Cu₃O₇, *Proceedings of the Materials Research Society*, 1988.

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Greg Walcher, Senior Fellow

Greg Walcher is one of the most recognized and respected national leaders in natural resources policy. He is President of the Natural Resources Group, and a member of several other firms. He brings to his clients a lifetime of experience, institutional knowledge, contacts, and advocacy on natural resources and environmental policy and issues. He specializes in issues related to energy, water, endangered species and wildlife, forest management, public lands and private property rights.

Walcher served in the Colorado Governor's Cabinet, leading the Colorado Department of Natural Resources — a department of 2,500 employees, 8 divisions, 14 boards and commissions, and a \$180

million budget. Its jurisdiction includes wildlife, parks, water, forestry, public lands, oil, gas, minerals and geology. His national colleagues elected him President of the National Organization of Natural Resources and Environment Cabinet Secretaries, and he has been a national leader in conservation policy debates.

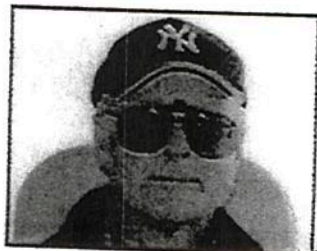
Leveraging a decade of Capitol Hill experience with U.S. Senator Bill Armstrong, Walcher spent ten years as President and CEO of Club 20, a non-partisan and non-profit association of 75 cities, 20 countries and hundreds of businesses with individuals serving the interests of Western Colorado – a region larger than most states. The group's budget and membership tripled during Walcher's tenure through activism on important regional issues: energy, water, forest health, tourism, transportation, telecommunications and public lands. He also served on the national policy committee for the American Society of Association Executives.

In 2004, Walcher was the Republican nominee for Congress in Colorado's 3rd District, a race that attracted national media attention as the top targeted House race in America (over \$8 million), where he came within two points of victory. He remains a frequent and popular speaker in the state and around the country. He is the author of *Backlash: the Theft of the Conservation Movement (and its Pending Recovery)*, slated for publication in 2011. Natural resource issues are also personal to Walcher, who owns a Colorado peach orchard, direct marketing and fresh fruit shipping business with customers in over 40 states. The company was featured in *Gourmet* magazine as a cutting-edge example of quality niche marketing and high-altitude fruit production.



Paul Bachman, Research Fellow

Paul Bachman is the Director of Research at The Beacon Hill Institute. He holds a Master of Science in International Economics degree from Suffolk University and a Bachelor of Arts (Politics) degree from the St. Joseph's University in Philadelphia.



John Droz, Jr., Research Fellow

John received undergraduate degrees in Physics and Mathematics from Boston College, and a graduate degree in Physics from Syracuse University. He subsequently worked for GE: Aerospace Electronics (Utica, NY), Mohawk Data Sciences (Herkimer, NY), and Monolithic Memories (Cupertino, CA).

After retiring at age 34 (due to successful real estate investing) he phased into pursuing a variety of community interests. This led to a 30± year commitment as an environmental activist. During that time he was a leading individual on three NY state-wide issues (electrical energy, water extraction, and water quality).

He had a lakefront home in the Adirondacks, and has been a participating member of several environmental organizations (e.g. the Adirondack Council, Association for Protection of the Adirondacks, Residents' Committee to Protect the Adirondacks, Sierra Club, NYS Federation of Lakes).

Two areas of interest and expertise (science and the environment) have merged with his focus on energy matters, especially wind power. John's basic position is that we should be taking science-based measures to solve our energy and environmental issues.

In 2011 John was selected to be on the Board of Directors of the advocacy group, NC-20. He is also that organization's scientific advisor.



Todd Myers, Research Fellow

Todd Myers is the Environmental Director at the Washington Policy Center, a market-oriented think tank in Seattle. His work has been featured in many Washington newspapers, the BBC, Fox News and the Wall Street Journal. Policies based on Myers' ideas have been proposed in Washington state, Michigan and adopted by legislators from across the nation in the American Legislative Exchange Council.

A former computer programmer, Myers has a Bachelors Degree in Politics from Whitman College and a Masters Degree in Russian/International Studies from the Jackson School of International Studies at the University of Washington.

In 2000, Myers ran Doug Sutherland's successful statewide campaign for Commissioner of Public Lands and served as his Communications Director until 2004, taking leave to run his successful re-election campaign. His experience combines planning and implementing public strategies for sport franchises, producing award-winning public events, managing successful statewide political campaigns, building strong grassroots coalitions, and creating innovative Internet marketing solutions. He also runs a public relations firm whose clients include the Seattle Mariners, Treehouse (a nonprofit organization improving the lives of foster children), and the Prescription Drug Assistance Foundation.



Mark Newgent, Research Fellow

Mark Newgent is a Maryland-based writer and researcher. His work has appeared in National Review Online, the Baltimore Sun, Washington Examiner, and newspapers across the country. Mark was a featured blogger for the Washington Examiner's Local Opinion Zone Blog, blogs regularly for Red Maryland, and is a regular guest on WBAL Radio in Baltimore.



Jenna Ashley Robinson, Research Fellow

Jenna Ashley Robinson is Outreach Coordinator at the John W. Pope Center for Higher Education Policy, where she has worked since 2007. She graduated from North Carolina State University with degrees in Political Science and French, and went on to receive her Masters degree in Political Science at UNC-Chapel Hill, and is a Ph.D candidate in Political Science. Robinson is also a graduate of the Koch Associates Program sponsored by the Charles G. Koch Foundation.

She was previously the E.A. Morris Fellowship Assistant at the John Locke Foundation, where she worked since 2001. Robinson's work has appeared in American Thinker, Human Events, Carolina Journal, the Lincoln Tribune, the Hickory Daily Record, the Gaston Gazette, the Mountain Express, and the News and Observer.



Bruce Edward Walker, Research Fellow

Bruce Edward Walker is managing editor of InfoTech & Telecom News. In this capacity, he has published essays in National Review Online, the Washington Times, the Washington Examiner, the Boston Herald, and the Detroit News' Michigan View.

Prior to joining Heartland in 2010, Bruce worked at the Mackinac Center for Public Policy as Science Editor of the quarterly magazine MichiganScience, and as the Communications Manager for the center's Property Rights Network. In the latter position, Walker won a Communicators Award of Distinction from the International Academy of the Visual Arts for a video he wrote, narrated, and produced called "Boardman River Dams, Episode 1: Drawdown and Devastation in Grand Traverse County".

Walker has written speeches and produced videos for General Motors executives and has edited publications for Buick Motor Division, for which he won a Silver Quill Award from the International Association of Business Communicators; the Detroit Athletic Club; and Gale Research. He continues to write articles, essays, and cultural reviews for the Mackinac Center, Acton Institute, Russell Kirk Center's University Bookman, Michigan View, and The American Culture. He has written more than 100 essays for the reference book series Contemporary Musicians, as well as many essays on novelists, poets, philosophers, and filmmakers for the Gale Research Literary Criticism series. Walker has interviewed filmmakers, authors, playwrights, performance artists, and musicians as entertainment editor-at-large for The Royal Oak, including books covering Ken Kesey's One Flew Over the Cuckoo's Nest; Adventures in Wonderland; and Edith Wharton's The House of Mirth. He also co-authored What to Do With a Major in Education for CliffsNotes.



Todd Wynn, M.A., Research Fellow

Todd Wynn is Vice President and policy analyst with Cascade Policy Institute where he conducts climate change, energy policy research and general environmental and economic policy issues.

In that position, he has been published in newspapers across Oregon, and is regularly featured as an environmental policy expert on TV and radio stations across the state and U.S.

Mr. Wynn received his Master's degree in International and Developmental Economics at the University of San Francisco. While studying at the University of San Francisco, Todd worked abroad in India on

climate change impact research. Prior to studying at the University of San Francisco, Todd attended Virginia Military Institute and California State University, Long Beach where he received his Bachelor of Arts degree in Business Economics.



William Yeatman, MA, Research Fellow

William Yeatman is an energy policy analyst best known for his work with Competitive Enterprise Institute in Washington, D. C. He focuses on state and federal regulatory regimes for energy supply and demand. His writing on energy policy has been published in newspapers across the country, and he is a frequent guest on radio and television.

Yeatman holds a Masters degree in International Administration from the Denver Graduate School of International Studies, and a Bachelors degree in Environmental Sciences from the University of Virginia.

Yeatman was a Peace Corps volunteer in the Kyrgyz Republic, where he taught entrepreneurship and small business management to rural women. Before that, he ran a homeless shelter in Denver, Colorado.

Media & Investigative Fellows



Kathy Hoekstra, Media & Investigative Fellow

Kathy Hoekstra is a Communications Specialist with the Mackinac Center for Public Policy. She assists in the Center's media outreach and does reporting for the Center's Michigan Transparency Project. Prior to joining the Mackinac Center staff, Hoekstra spent nearly fifteen years in broadcast journalism.

She was an award-winning news anchor and reporter for radio stations in Port Huron and Saginaw, working for more than a decade in local television news in the state. In addition to her reporting and anchoring duties, Hoekstra also produced and hosted a weekly public affairs program that involved in-depth coverage of local and statewide issues.

Hoekstra graduated from the University of Michigan with a Bachelors degree in both Communications and English. She is also a graduate and Hall of Fame member of the Specs Howard School of Broadcasting, and she has done graduate work at Saginaw Valley State University.



David Knight, Media Fellow

David Knight is the founder of CineFilm Media, a full service video production company located in the Research Triangle area of North Carolina. He has produced award-winning content for non-profits and policy groups including Galen Institute, FreedomWorks, ParentalRights.org, AMD Alliance International and corporations such as Cisco, VMware and the National Marine Manufacturers Association.

Prior to CineFilm Media, Knight received a BSEE, cum laude from the University of South Florida and worked as an Electronics Engineer before entering the marketplace to create point-of-sale retail software for the video rental market and a chain of video stores that he owned and operated for 14 years. It was here that he got a chance to edit some of the finest films of the 20th century into movie trailers, learning not only the art of filmmaking but also how to condense content into a compelling narrative.

A dedicated advocate of free markets and liberty, Knight was a one-time candidate for Congress, and campaign manager for Scot McLaughlin who received the highest percentage of votes in the last century for a North Carolina third party candidate.



Amy Oliver Cooke, Media & Investigative Fellow

Amy Oliver Cooke is an energy policy expert and blogger for the Independence Institute, Colorado's free market State Policy Network think tank since 2004, also covering spending and transparency.

Lawmakers frequently request Cooke's testimony on energy and transparency in legislative committee hearings. She collaborated with William Yeatman of the Competitive Enterprise Institute to expose the high cost of Colorado's "new energy economy," a supposed model for renewable energy for the rest of the country, questionable behavior at the Public Utilities Commission, and collusion between lawmakers, bureaucrats and special interest groups. Their work resulted in five pieces of legislation introduced during the 2011 legislative session.

She is also the host of the award winning Amy Oliver Show heard on News Talk 1310 KFKA in Greeley, Colo. In 2008, the Colorado Broadcasters Association recognized her with the Award of

Excellence for Best News Talk Personality in a major market.

Cooke was recognized again in 2011 with an Award of Merit for Best News Talk Personality in a major market. Cooke has been published in the Denver Post, Pueblo Chieftain, Greeley Tribune, Denver Business Journal, Denver Daily News, Liberty Ink Journal, The Daily Caller and on Save Our States. She has written numerous opinion editorials, issue papers and issue backgrounders.

Advisors



Joe Bastardi, Senior Advisor & Fellow

Joe Bastardi, formerly chief meteorologist at AccuWeather, frequently appears on cable news channels, such as CNN and Fox News during storms. He has been a fixture in the private weather industry for over 35 years, starting with his degree in Meteorology at Penn State. He is the only meteorologist to have ever lettered Division 1 in NCAA in wrestling.

Currently, Bastardi is a key player in launching a new cutting edge weather forecasting company, WeatherBELL Analytics. The company plans to build from the ground up, the nation's go-to private long range and extreme weather forecasting service. His forecast methodology mimics his beliefs, that the foundation of the past must be used to forge the future.

Bastardi emphasizes that while the tools we have today are better than many years ago, there is no getting away from the basics. The use of those tools are established in our constitution to help all men have a chance to better their lives. Bastardi is also an avid bodybuilder, winning his height class in a recent "Over 50 Mr. America". He is also a volunteer strength and nutrition advisor for the Nittany Lion Wrestling Clubs wrestlers, whose members will compete in June for a spot on the USA's world team.



Charles Clough, MS, ThM – Advisor

Professor Charles Clough received a Bachelors degree in Mathematics from the Massachusetts Institute of Technology, a Masters degree in Atmospheric Science from Texas Tech University, and a Theology Masters degree in Old Testament and Semitics from Dallas Theological Seminary.

Re: Dave 

David Schnare to: Phillip Brooks

09/29/2011 09:15 AM

Yes, I filed a waiver request. It's attached. At the time, ATI was called WTI.

d.



WTI outside employment request.docx

David W. Schnare, Esq. Ph.D.
202-564-4183
schnare.david@epa.gov

Phillip Brooks

USA Today called asking whether you got a wai...

09/28/2011 03:38:39 PM

From: Phillip Brooks/DC/USEPA/US
To: David Schnare/DC/USEPA/US@EPA
Date: 09/28/2011 03:38 PM
Subject: Dave

USA Today called asking whether you got a waiver allowing you to represent TRI. they are requesting a copy of the waiver. Do you have a copy handy? Is there one?

Phillip A. Brooks, Director
Air Enforcement Division
1200 Pennsylvania Ave. N.W.
Washington, DC 20460

Phone: (202) 564-0652
Fax: (202) 564-0015



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Office of Enforcement and
Compliance Assurance

MEMORANDUM

Date: November 16, 2010

From: David W. Schnare, Esq. Ph.D.
Attorney-Advisor
Air Enforcement Division

Thru: Greg Fried, Acting Chief
Stationary Source Enforcement Branch
Air Enforcement Division

To: Adam Kushner, Director
Deputy Ethics Officer
Office of Civil Enforcement

Subject: Approval for Outside Employment

Pursuant to 5 C.F.R. § 6401 and 5 C.F.R. § 2635, this memorandum seeks prior approval for outside employment. In accord with the above cited code and implementing regulations, please review the following information and provide approval for participation as a *pro bono* associate of the American Traditions Institute.

Information Required under § 6401.103

(1) Employee's name, title and grade

David W. Schnare, Attorney-Advisor GS 15/10

(2) Nature of the outside activity, including a full description of the services to be performed and the amount of compensation expected;

The American Tradition Institute is a 501(c)3 not-for-profit charitable public policy research educational and public interest law foundation. It exists to lead a national discussion about environmental issues, including air and water quality and regulation, responsible land use, natural resource management, energy development, property rights, and free-market principles of stewardship. I have been asked to serve, *pro bono*, as a

Director to the Institute and to help organize its planned law center. My duties as an Institute Director will not include fund-raising. My duties with the law center could include development of strategic plans, selection of projects and recruitment of staff. My duties would not include any representation at law of the Institute or its members. Institute and affiliated attorneys will conduct all representation of any matters at law.

(3) The name and business of the person or organization for which the work will be done (in cases of self-employment, indicate the type of services to be rendered and estimate the number of clients or customers anticipated during the next 6 months);

The American Tradition Institute, a 501(c)3 not-for-profit charitable public policy research, educational and public interest law foundation.

(4) The estimated time to be devoted to the activity;

Fifteen hours per week.

(5) Whether the service will be performed entirely outside of normal duty hours (if not, estimate the number of hours of absence from work required);

All services will be performed entirely outside normal duty hours.

(6) The employee's statement that no official duty time or Government property, resources, or facilities not available to the general public will be used in connection with the outside employment;

I will use no official duty time or Government property, resources, or facilities not available to the general public in connection with the outside employment.

(7) The basis for compensation (e.g., fee, per diem, per annum, etc.);

My participation will be completely *pro bono*.

(8) The employee's statement that he or she has read, is familiar with, and will abide by the restrictions described in 5 CFR part 2635 and Sec. 6401.102;

I have read and am familiar with, and will abide by the restrictions described in 5 CFR part 2635 and Sec. 6401.102

(9) An identification of any EPA assistance agreements or contracts held by a person to or for whom services would be provided.

The American Tradition Institute does not accept grants from or enter contracts with federal governmental units. I am unaware of any assistance agreements or contracts between EPA and the American Tradition Institute, despite a good faith effort to identify same.